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<110> Chada, Kiran K.  
Chouinard, Roland  
Ashar, Hena  
Sayed, M.D., Abu

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<141> 2003-06-12

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&lt;213&gt; Mus musculus

&lt;400&gt; 12

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## 69014-PRO2.ST25.txt

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2462

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 16

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 17

&lt;211&gt; 1838

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 17

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<211> 1903

<212> DNA

<213> Homo sapiens

<400> 18

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 727

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 19

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&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<213> Mus musculus

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<210> 22

<211> 1452

<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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&lt;210&gt; 23

&lt;211&gt; 1473

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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<210> 24

<211> 3054

<212> DNA

<213> Homo sapiens

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## 69014-PRO2.ST25.txt

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```

&lt;210&gt; 25

&lt;211&gt; 606

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 25

```

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gctgagthtt ctgtggacga gaagggtcat atgagcgcca cagccaaggg acgagtcctg 240
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## 69014-PRO2.ST25.txt

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ggcctgagcc cagagacacg gaggctggtg aggcaacggc aggaggagct gtgcctagag 540  
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<210> 26

<211> 919

<212> DNA

<213> Homo sapiens

<400> 26

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<210> 27

<211> 2531

<212> DNA



&lt;213&gt; Mus musculus

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## 69014-PRO2.ST25.txt

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agcaagccgg c 2531

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&lt;210&gt; 28

&lt;211&gt; 3969

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3366)..(3366)

&lt;223&gt; n=a,c,t or g

&lt;400&gt; 28

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&lt;211&gt; 1333

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 29

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&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 31

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&lt;211&gt; 1563

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 33

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<211> 2248

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 1858

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

## 69014-PRO2.ST25.txt

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&lt;210&gt; 36

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 36

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&lt;210&gt; 37

&lt;211&gt; 1151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

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<210> 38

<211> 2019

<212> DNA

<213> Mus musculus

<400> 38

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 cgcgagacac ggagacgggt atcccttcga cggcaaggac ggccttctgg cacacgcctt 180  
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## 69014-PRO2.ST25.txt

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&lt;210&gt; 39

&lt;211&gt; 2334

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 5186

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 40

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 1479

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 42

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<211> 1438

<212> DNA

<213> Homo sapiens

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&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 44

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&lt;211&gt; 2003

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 45

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<210> 46

<211> 1968

<212> DNA

<213> Homo sapiens

<400> 46

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catacatctc agaaagatta ctctcgtggc tttggtggcc ggtacggggg ggagaaggat 540
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gagcgaaagg ctgtgacaaa gaggagccct gaggctccac agccagtgat agctatggaa 900
gagccagcag taccggcccc actgccaag aaaatctcct cagaggcctg gcctccagtt 960
gggactcctc catcatcaga gtctgagcct gtgagaacca gcagggaaca cccagtgccc 1020

```

## 69014-PRO2.ST25.txt

```

ttgctgcccc ttaggcagac tctccccgag gacaatgagg agccccccagc tctgccccct 1080
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gagcccgagc ctgagcccga gcctgagaat gactatgagg acgttgagga gatggacagg 1200
catgagcagg aggatgaacc agaggggggac tatgaggagg tgctcgagcc tgaagattct 1260
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gccactttc cttccctgaa gaaatatctg tgaaccttct ttctgttcag tcctaaaatt 1920
cgaaataaag tgagactatg gttcacctgt aaaaaaaaaa aaggaatt 1968

```

&lt;210&gt; 47

&lt;211&gt; 477

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 47

```

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ctgcagatac ccccatccct gctgacatgt ggtggctgcc agcagaacat aggggaccgc 120
tacttctga aagccatcga ccagtactgg catgaggatt gcctcagctg tgacctctgt 180
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atccgtgcct atgagatgac gatgcgggtg aaagacaaag tgtatcacct ggagtgtttc 360
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gacatagtgt gtgaacaaga catctacgag tggaccaaga tcaatgggat catctag 477

```

&lt;210&gt; 48

&lt;211&gt; 2304

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

```

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gcagagcaca tctggtgtga gagagctcgc tgcaagggtg aaggctccgc cctatcagat      180
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gaacagcaac gggccttgag cagaattgag aaggaaatac cccacactgc cctcagccgt      300
taagtgggct ttgctattca caagggcctc tgggtgtcct ggagagagag ggagatggca      360
caggcaccag gtgctagggt gccagggcct cccgagaagg aacaggtgca aagcaggcaa      420
ttagcccaga aggtatccgt ggggcaggca gcctagatct gatgggggaa gccaccagga      480
ttacatcatc tgctgtaaca actgctctga aaagaagata tttttcaacc tgaacttgca      540
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cggaggcagg agcggcggcg acggcggcgg cggcggcggc gcccgagcac ccgaggggggt      960
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tgggatgata taggcccag tccccgggca tctttgggga ggtgttact gaagacgccg      1560
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```

## 69014-PRO2.ST25.txt

```

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acagattgtt tctatacaaa tataaatctt aaaaagttgt tcaactattt tattatccta 2220
gattatatca aagtatttgt cgtgtgtaga aaaaaaaac agctctgcag gcttaataaa 2280
aatgacagac tgaaaaaaaa aaaa 2304

```

&lt;210&gt; 49

&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 49

```

tgaagctgtt cgatagcatc tgtaacaaca agtggtttac agacacgtcc atcatccttt 60
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accagaata tgcaggctca aacacatatg aagaagcggc cgcgtatatt cagtgtcagt 180
ttga 184

```

&lt;210&gt; 50

&lt;211&gt; 1702

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 50

```

ccggcagtcc cgagtgttc ccgcagaggg ctggtggtgg gagcggagtg gagtcgggagc 60
gggccgaagc cgggccgtgg gcgtagatgg gggccgggagc gcggcgagc ggcggaacgc 120
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```

## 69014-PRO2.ST25.txt

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cccaacacca gcccctgccc cagcccaagt ccaaatgttt acgggagcct cctgcccagt 1620  
ccccaacccc cagccgctcg gagggcccaa aggaaaaagc acaagaagcg tgagacgcca 1680  
ccattcctgg aaaccacagt cc 1702

&lt;210&gt; 51

&lt;211&gt; 1015

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

## 69014-PRO2.ST25.txt

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 cacctccaag gacacttatc taagtcattt taatcctcgg gattacttgg aaaaatatta 240  
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 acatcctgtg atccctatta aaggcctgct ggtgaatttc aggctgtgtc tctgg 1015

<210> 52

<211> 952

<212> DNA

<213> Homo sapiens

<400> 52  
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 gtcgtcactg actactcaga ccagaacctg caggagctgg agaagtggct gaagaaagag 420  
 ccagaggcct ttgactggtc cccagtgggtg acctatgtgt gtgatcttga agggaaacaga 480



## 69014-PRO2.ST25.txt

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 agcacactgt gtctggatgc cgcctgcca gacctccca cctactgcag ggcgctcagg 660  
 aacctcggca gcctactgaa gccagggggc ttcctggtga tcatggatgc gctcaagagc 720  
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<210> 53

<211> 806

<212> DNA

<213> Mus musculus bactrianus

<400> 53

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 gtgggctctg attcccgggt gtcagcagga acagcagtgg tgaaccgcgt gttcgacaag 180  
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 gccatagctg acatggccgc ctaccagctg gagctacacg ggttgagct ggaggagcca 300  
 cccctcgttc tggctgctgc aaacgtggtg aagaacatct cctacaagta ccgtgaggac 360  
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 accatgggag ggatgcta at tgcacagccc tttaccatca gcggttctgg aagctcctac 480  
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 ccaaaattct acgatgagtg actgatcccc agaagtccct tccttgtttg taataaactt 720  
 tctggaacca gaaggccggg gcgatgggca aaggtgaaat atgtgtatca gagagacacg 780  
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<210> 54

<211> 723

<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

```

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gcaccaaccg gggacttacc ccgggcggga gaagtccaca ccgggaccac catcatggca      120
gtggagtttg acgggggcgt tgtgatgggt tctgattccc gagtgtctgc aggcgaggcg      180
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ctc                                                                    723

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&lt;210&gt; 55

&lt;211&gt; 2464

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 55

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tctgcagcca gcctcagagg caaagctgac cagcattgaa aagctgcttc ttcttcttct      120
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```

## 69014-PRO2.ST25.txt

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aaaa

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&lt;210&gt; 56

&lt;211&gt; 2168

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

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&lt;210&gt; 57

&lt;211&gt; 971

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 57

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<211> 897

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Mus musculus

<400> 59

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<213> Mus musculus

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 62

&lt;211&gt; 1417

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 62

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&lt;210&gt; 63

&lt;211&gt; 4315

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 70

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## 69014-PRO2.ST25.txt

```

ttccgggggat tctggcagga gcggtctgcat gacattgaga gcaaagggct gcagcccact 3120
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caggagcgtc agttgcgggg cgcagtgccc tgggcgttcg accctcccgg ctcagacacc 3600
aacagcccct ga 3612

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&lt;210&gt; 74

&lt;211&gt; 3453

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 74

```

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tggatcccag tgctgacagg gtccctccct aagcctatcc tcagagtaca gccagactct 120
gtggtctcca ggtggactaa ggtgactttc ttttgtgagg agacaattgg agccaatgag 180
taccgcctct ataaagatgg aaagctatat aaaactgtaa caaagaacaa acagaagcca 240
gcaaacaagg ctgaattctc actctcaa atgtagacctga gaaatgcagg tcaatatcga 300
tgttcctaca gcacccagta taaatcatca ggctacagtg accccctgga gctgggtggg 360
acaggagact actggacacc cagcctttta gcccaagcca gccctgtggt aacttcagga 420
gggtatgtca ccctccagtg tgagtcctgg cacaacgatc acaagttcat tctgactgta 480
gaaggaccac agaagctctc gtggacacaa gactcacagt ataattactc tacaaggaag 540
taccacgccc tgttctctgt gggcccagtg accccaacc agagatggat atgcagatgt 600
tacagttatg acaggaacag accatatgtg tggtcacctc caagtgaatc cgtggagctc 660
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tccaaaagag caatgaccat ctggtgtcag gggaacctgg atgcagaagt atattttctg 780
cataatgagg gaagccaaaa aacacaaagc acacagaccc tacagcagcc tgggaacaag 840
ggcaagttct tcatcccttc tatgacaaga caacatgcag ggcaatatcg ctgttattgt 900

```

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aacatgacac	tccactgtgc	ctcagacttt	cactacgata	aattcattct	caccaaggaa	1080
gataagaaat	tcggcaactc	actggacaca	gagcatatat	cttctagtag	acagtaccga	1140
gccctgttta	ttataggacc	cacaaccca	accatacag	ggacattcag	atgttatggt	1200
tacttcaaga	atgccccaca	gctgtggtca	gtacctagtg	atctccaaca	aatactcatc	1260
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cttacctggt	gtcccttagg	acggcagccc	tctgagtaat	caggttgtgg	ctgctactat	2760
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## 69014-PRO2.ST25.txt

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cacactggta cacaaagcac actgaagggc aggtctcatg cccagcggta cgtggccaac 3000
actaaatgaa ctactggta ttttcgaagt ctgtgcttat aatgcttgtc tgttacttat 3060
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cctgtataat tagcaaaaag attttcattg ttttcttctt ccatttttcc attctgtgtg 3240
actacttaca ttattgtgcc taatgtcatt tcactgtgaa tttcattttt taagtttttg 3300
tgatttaaat gcattttatac atcaaagtga ttagtaatga gtactttgag aatcatataa 3360
tacataaaac tttgttcaac ttttatattc atatcctttc atatcctaaa ctatcattaa 3420
taaataattta atactaaaaa aaaaaaaaaa aaa 3453

```

&lt;210&gt; 75

&lt;211&gt; 2024

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 75

```

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tccagggctg gagggacgac tgccagcacc gagggctcat ccatccgcag agcagggcag 120
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agcttgtgaa gaacggccag ttccacatcc catccatcac ctgggaacac acagggcgat 420
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caggaggaag ggtgaccctc cagtgtgagt cacaggtggc atttggcggc ttattctgt 600
gtaaggaagg agaagaagaa caccacaat gcctgaactc ccagcccat gcccgtaggt 660
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```

## 69014-PRO2.ST25.txt

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agatgctggg aactttggga ctcaattgat tctgcagtcg aaat 2024

```

&lt;210&gt; 76

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 76

```

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gcacaagaga acgctgagtg ggggctggta gggagggtg gggccattta ggtgccatct 180
gtcgttcaga gtatctgtgt cagaggcaaa tagtgtagtt gctcgcagat gaggaaaacg 240
gaaaccagga gaacaagagg gtggcactgc tgccaggcag caaagccgca actcgaaccc 300
aagccttctg gttggcagag ttacagcttg tcggctcctgg gcctccacag attcctgaat 360

```

## 69014-PRO2.ST25.txt

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ggctcaggga cacactctta agtctccact tcttaccctg caggctctgg gctccgcctc 720
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gt 842

```

&lt;210&gt; 77

&lt;211&gt; 162

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 77

```

gcccctgcag ccaacagaga catggcatcc atcgtgtctg agatcatgat gtatgtgctc 60
attgtggtgt tgaccatatg gctcgtggca gagatgattt actgctacaa gaagatcgct 120
gccgccacgg agactgctgc acaggagaat gcgtgagtag gg 162

```

&lt;210&gt; 78

&lt;211&gt; 2992

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 78

```

tgccatcata aaggagccat acctgtaa at gccatgcaag ttcagctgcc tgcaaagacc 60
agaagagggc attggattca ccacatgtgc taagaattga acttgaatca tctgcaaaaa 120
caaatcaaag gaaatggaag acaataatat gttacctcag ttcattccacg gcatactatc 180
aacatctcat tctctattta cacgaagtat ccaagagctt gatgaagggg ccaccacacc 240
gtatgactac gatgatggtg agccttgtca taaaaccagt gtgaagcaaa ttggagcttg 300
gatcctgcct ccactctact ccctggatt catctttggt tttgtgggca acatgttggt 360
cattataatt ctgataggct gtaaaaagct gaagagcatg actgatatt atctgctcaa 420

```



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cacttgggtg	gtggctgtgt	ttgcctctct	accaggaatc	atatttacta	aatccaaaca	720
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## 69014-PRO2.ST25.txt

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gtaaaacaaa actggatgaa gcagggacag aattcttgct ttgaaaataa tacttgggaa 2700
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&lt;210&gt; 79

&lt;211&gt; 1979

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

```

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acgagagcgg tgaagaagtc accacctttt ttgattatga ttacggtgct ccctgtcata 180
aatttgacgt gaagcaaatt ggggcccaac tcctgcctcc gctctactcg ctggtgttca 240
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acgagaagaa gaggcatagg gcagtgagag tcatcttcac catcatgatt gtttactttc 840

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## 69014-PRO2.ST25.txt

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aaaaa 1865

```

&lt;210&gt; 86

&lt;211&gt; 382

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 86

```

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gactattttt gtgctaaaag tc 382

```

&lt;210&gt; 87

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 87

```

aagaactgac tattctggct ccacttccca cgtgctagga ttacaggcag gtgcttccac 60
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<210> 88

<211> 2360

<212> DNA

<213> Rat

<400> 88

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 cagggttctt tccctgccaa ccaccctagc cgcttgagacc ttggaagaga gcacggtaat 180  
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## 69014-PRO2.ST25.txt

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&lt;210&gt; 89

&lt;211&gt; 1396

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 89

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gacttggctt	tagttgtgga	gaactatatt	cacacaatga	agaggaatgt	cacaccctct	480
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atttagaaca aaaacc 1396

```

<210> 90

<211> 1743

<212> DNA

<213> Rat

<400> 90

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## 69014-PRO2.ST25.txt

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ctgatcacca gaaccaataa agacataaat ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaa 1743

```

&lt;210&gt; 91

&lt;211&gt; 1738

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 91

```

acgtaccggg gtccggagga cttgtgtaca gcggcaatgg gcggtgtcgg ggagcccgga 60
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```

## 69014-PRO2.ST25.txt

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&lt;210&gt; 92

&lt;211&gt; 1

&lt;212&gt; DNA

&lt;213&gt; Place Holder

&lt;400&gt; 92

a

1

&lt;210&gt; 93

&lt;211&gt; 393

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 93

```

ttttttttta tgacacgttt tcttttattt aaaatagagc tctttatgct ttacagaaac    60
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aagtcatgaa acatctgaat gtcatccacg act                                     393

```

&lt;210&gt; 94

&lt;211&gt; 1611

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 94

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```

&lt;210&gt; 95

&lt;211&gt; 2081

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 95

```

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69014-PRO2.ST25.txt

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<212> DNA

<213> Rat

<220>

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&lt;222&gt; (411)..(411)

&lt;223&gt; n=a,c,t or g

&lt;400&gt; 96

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&lt;210&gt; 97

&lt;211&gt; 2366

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 97

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&lt;211&gt; 2240

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 98

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 1613

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 99

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<212> DNA
<213> Human

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<223> n=a,c,t or g

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<220>
<221> misc_feature
<222> (132)..(132)
<223> n=a,c,t or g

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<211> 1909

<212> DNA

<213> Rat

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<210> 102

<211> 1716

<212> DNA

<213> Rat

<400> 102

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 103

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<211> 1905

<212> DNA

<213> Rat

<400> 104

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&lt;211&gt; 2429

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 105

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&lt;213&gt; Human

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&lt;213&gt; Rat

&lt;400&gt; 107

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&lt;211&gt; 3612



&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 108

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&lt;213&gt; Rat

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<213> Rat

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 1372

&lt;212&gt; DNA

&lt;213&gt; Rat



## 69014-PRO2.ST25.txt

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&lt;400&gt; 120

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```

## 69014-PRO2.ST25.txt

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&lt;210&gt; 121

&lt;211&gt; 1647

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 121

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```

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<211> 2701

<212> DNA

<213> Rat

<400> 122

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cccctcctgt gtggggcccg gatgtgtcag aagaacaacc ctggcaccta ccaggagctg 480

```

## 69014-PRO2.ST25.txt

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## 69014-PRO2.ST25.txt

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 c 2701

<210> 123

<211> 1570

<212> DNA

<213> Human

<400> 123

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## 69014-PRO2.ST25.txt

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aaaaaaaaa 1570

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&lt;210&gt; 124

&lt;211&gt; 3827

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 124

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## 69014-PRO2.ST25.txt

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```

&lt;210&gt; 125

&lt;211&gt; 6036

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 125

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<211> 1658

<212> DNA

<213> Rat

<400> 128

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 129

&lt;211&gt; 2260

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 129

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&lt;210&gt; 130

&lt;211&gt; 2007

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 130

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 132

&lt;211&gt; 3521

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 132

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 133

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (89)..(125)

&lt;223&gt; n=a,c,t or g

&lt;220&gt;

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&lt;223&gt; n=a,c,t or g

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&lt;222&gt; (390)..(393)

&lt;223&gt; n=a,c,t or g

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&lt;210&gt; 134

&lt;211&gt; 1639

&lt;212&gt; DNA

&lt;213&gt; Rat

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 135

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 135

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agattttt

427

&lt;210&gt; 136

&lt;211&gt; 588

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 136

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&lt;210&gt; 137

&lt;211&gt; 680

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 137

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&lt;210&gt; 138

&lt;211&gt; 4395

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 138

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&lt;211&gt; 4150

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&lt;213&gt; Human

&lt;400&gt; 139

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;211&gt; 1976

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 144

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 146

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<211> 273

<212> DNA

<213> Rat

<400> 147

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<210> 148

<211> 384

<212> DNA

<213> Rat

<400> 148

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&lt;210&gt; 149

&lt;211&gt; 2195

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 149

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<210> 150

<211> 1907

<212> DNA

<213> Human

<400> 150

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## 69014-PRO2.ST25.txt

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<211> 493

<212> DNA

<213> Rat

<220>

<221> misc\_feature

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<400> 151

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&lt;210&gt; 152

&lt;211&gt; 1288

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 152

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aatggataca ataaatttaa tagtgctg	1288

&lt;210&gt; 153

&lt;211&gt; 208

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;221&gt; misc\_feature

&lt;222&gt; (148)..(162)

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&lt;210&gt; 154

&lt;211&gt; 2178

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;211&gt; 2619

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 155

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 3860

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 156

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## 69014-PRO2.ST25.txt

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gactctctgg tttagtgtc ttttggtatt atccttttaa tcaaactggg ctataatagc 3900
aataaaagtt agacgaagtg tagaaaataa aataaatttc ataatgttaa aaaaaaaaaa 3960
aaaaaaaaa 3969

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&lt;210&gt; 160

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 160

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attatgcatt ttaaataatt tcagatagaa ccaaatatg tacattttta gagcatcaaa 180
tactttgccc tctccctcct tctcctctta aaaggcgga atcacaatgt tcaatccatt 240
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gccctttctt ttggaactta attaagtact tcttatctat tacaggagta ttaattaatg 360
tgtggtggta ctgaaatgtt aaaaaacaga gcacatgtca tgtcattaga actttgaaca 420
ctgattttaca cgg 433

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&lt;210&gt; 161

&lt;211&gt; 3161

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 161

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## 69014-PRO2.ST25.txt

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 162

&lt;211&gt; 3871

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 162

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## 69014-PRO2.ST25.txt

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<210> 163

<211> 2547

<212> DNA

&lt;213&gt; Rat

&lt;400&gt; 163

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cgcggcagga tctatgaagc aaaaaattta ttgccatata ttggacccaa caaaatgcgc      180
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## 69014-PRO2.ST25.txt

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 164

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&lt;213&gt; Rat

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&lt;213&gt; Rat

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&lt;213&gt; Rat

&lt;400&gt; 168

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;213&gt; Rat

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 177

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&lt;211&gt; 1872

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 178

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<212> DNA

<213> Rat

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&lt;213&gt; Human

&lt;400&gt; 182

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&lt;211&gt; 3466

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 183

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&lt;211&gt; 4080

&lt;212&gt; DNA

&lt;213&gt; Human

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&lt;211&gt; 2328

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 185

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&lt;211&gt; 2197

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 186

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&lt;212&gt; DNA

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&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 188

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<213> Human

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## 69014-PRO2.ST25.txt

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa 2388

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&lt;210&gt; 193

&lt;211&gt; 1239

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 193

```

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```



## 69014-PRO2.ST25.txt

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&lt;210&gt; 194

&lt;211&gt; 1405

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 194

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 195

&lt;211&gt; 2695

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 195

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2109

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 196

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<211> 1565

<212> DNA

<213> Rat

<400> 197

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## 69014-PRO2.ST25.txt

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aaaaa 1565

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&lt;210&gt; 198

&lt;211&gt; 1762

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 198

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<400> 199

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&lt;213&gt; Rat

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 202

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&lt;210&gt; 203

&lt;211&gt; 216

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;213&gt; Rat

&lt;400&gt; 206

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&lt;211&gt; 2234

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 207

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&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 216

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## 69014-PRO2.ST25.txt

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&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;210&gt; 220

&lt;211&gt; 2602

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 220

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aaaaaaaaaa aaaaaaaaaa aa 2602

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&lt;210&gt; 221

&lt;211&gt; 2683

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 221

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&lt;211&gt; 2661

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 222

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 223

&lt;211&gt; 326

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 223

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&lt;210&gt; 224

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 224

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cacaaatgcc caagcgggtac a                                     321

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&lt;210&gt; 225

&lt;211&gt; 2785

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 225

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&lt;211&gt; 198

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;210&gt; 227

&lt;211&gt; 739

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;210&gt; 228

&lt;211&gt; 676



&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 228

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cagaataaaa taaagc                                     676

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&lt;210&gt; 229

&lt;211&gt; 315

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 229

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ggatgctgac gggcc                                     315

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&lt;210&gt; 230

&lt;211&gt; 293

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 230

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&lt;210&gt; 231

&lt;211&gt; 336

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 231

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ctaaggcaat	agctacacaa	aagagggctg	ctttca			336

&lt;210&gt; 232

&lt;211&gt; 3028

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 232

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 233

&lt;211&gt; 3144

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 233

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 234

&lt;211&gt; 1334

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 234

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<210> 235

<211> 1408

<212> DNA

<213> Rat

<400> 235

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## 69014-PRO2.ST25.txt

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<213> Rat

<220>

<221> misc\_feature

<222> (228)..(228)

<223> n=a,c,t or g

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ca 242

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<210> 237

<211> 1802

<212> DNA

<213> Rat

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<400> 237
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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2662

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&lt;213&gt; Rat

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 241

&lt;211&gt; 2165



&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 241

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 242

&lt;211&gt; 1819

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 242

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&lt;211&gt; 2947

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 243

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2820

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 244

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&lt;211&gt; 2360

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 245

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&lt;211&gt; 343

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;210&gt; 247

&lt;211&gt; 3306

&lt;212&gt; DNA

&lt;213&gt; Rat

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 249

&lt;211&gt; 1900

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 249

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## 69014-PRO2.ST25.txt

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&lt;213&gt; Place holder

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1

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<212> DNA

<213> Rat

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2090

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 252

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<211> 2195

<212> DNA

<213> Rat

<400> 253

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 2195

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 254

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gcctggaagc tgagggaggg ctcatctccc ctgtatgggg ggagaaggg atacctgccc 300
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gtgatgcaa cagagagccc gtagctgaga ggtctgagcc tgcactcagt ggcctgcctc 420
ctgccaccat ggggtctgga gaccttctgc tctccgggga aagccagggtg gagaagacca 480
agctttcttc ctccgaggag ttccctcaga ctctgagcct tcccagaaca acaactattt 540
gctcaggaca tgatgctgat accgaagatg atccatccct agcagatttg cccagggcac 600
tggaacctag ccagcagcct cacagctcag gtctctcttg cctgtcacag tggaagtccg 660
tgctgagccc aggttccgca gctcagcctt ccagctgcag catctctgct tcctccacgg 720

```

## 69014-PRO2.ST25.txt

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gcagcagtct ccaggggtcac caggagaggg cggagcctcg tgggtggttct ctggccaagg 780
tctcctcctc cctggagccg gtcgtccccc aggaaccttc ctctgtggtg gggctaggac 840
ctcggcccca gtggtcacca cagcctgtgt tctctggggg tgatgcttct gggctaggca 900
ggagacgcct ctccttccag gctgagtact gggcctgtgt gctgccagat tccctgcctc 960
catcacccga ccgccactcc cctctctgga acccaaataa agagtatgaa gatctgcttg 1020
actatactta cccactgagg cccgggcctc agctcccaaa gcaccttgat agccgtgtgc 1080
cagctgaccc tgtcctgcag gactccgggg tagacctgga tagcttctct gtctctccag 1140
caagcacctt caaatcacct actaatgtct cccccaactg cccaccagca gaggccactg 1200
ccctgccatt ttctggggcc agagagccaa gccttaagca gtggccctcc agagtacccc 1260
agaaacaggg tggcatgggc ttggcatctt ggagccaact tgcattctacc cccagagccc 1320
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ggtggccctc gcccaggcca gagagggaga agaggaccag ccagagtgcc cggcgcccta 1500
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cagatcgctt gtatgactct atcttggcct ctctggacat gctggctggc tgcaccctta 1920
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caagaagtcc ttgcaagagc cattcaacac tgaagtcaag ggggaaacct tcaatatact 2100
agcttttaaaa tgcctttctc ctccctgaat ggagggctga gttactatct ttattttaca 2160
tgaatccttc caaactaaaa aaaaaaaaaa aaaaa 2195

```

&lt;210&gt; 255

&lt;211&gt; 1335

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 255

## 69014-PRO2.ST25.txt

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atgagcgagg agacggcgac ttctgacaac gataatagtt atgcacgagt gcgagctgtg      60
gtgatgacca gagatgactc aagtgggtgga tggctaccac tcggaggggag cggactgagc    120
agcgtcactg tcttcagagt ccctcatcag gaagagaatg gctgtgcgga cttttttatc    180
cgtggagaga gactcagaga caaatgggtg gttttggaat gtatgcttaa gaaagacctc    240
atctataata aggtcactcc cacatttcac cactggaaga tcgatgacaa gaagtttggc    300
cttacctttc agagtcctgc tgatgccagg gcttttgatc gaggcattcg aagagctata    360
gaggatatat ctctaggggtg cccagcgtca aaaactgagg ctgaaggagg agatgatgat    420
ttacaaacga ctgaagaaga cacttcccgt tccctagtga aagatcactt tttccagcaa    480
gagacagttg ttaccagtga accttacaga agctcagaca taagaccgtt accctttgaa    540
gatctgaatg ccagaagagt ctacttgcaa agccaagtca gccagatacc attcagtcag    600
caaggcctag acattcagag ccgaagtatg gaatatgtac agcggcaa atctaaggaa    660
tgtgggagcc taaagtccca aactaggggtc cttttgaagt caatcagaca tgtcagcttt    720
caagatgagg atgagattgt tagaataaat ctcgagata tcttaatacg tcgatatgca    780
gactacagac atccggacat gtggaaaaat gacttggaga gagatgatac tgactccagt    840
gttccatttt ctaaacaaga cagtaaaaag tcagactatc tctaccactg tggggatgag    900
actaagttaa gtttctctgaa agactctgtg gtattttaaga cacagcctcc ctcgttaaaa    960
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aggtttaatc atgaagaaaa cgccaggggg aaatgccagg acgctccaga tcctgttaaa   1080
agatgcatat atcaagttag ctgcatgctc tgtgctgaga gcatgctata tcattgtatg   1140
tcagactcag agggagactt ttctgatcct tgttcgtgtg aactagcga tgacaagttc   1200
tgccctaagg ggttagccct ggtagctctg tctttcattg taccatgtat gtgctgctac   1260
gtccctttga gaatgtgcc a tcgctgtggt gaggcattgc ggtgctgtgg tgggaaacat   1320
aaggctgctg ggtga                                     1335

```

&lt;210&gt; 256

&lt;211&gt; 3816

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 256

```

gcggctcccc tctctcgggc gtgaggagct ggcccgtga gctgctgttg cttccccgcc      60
tgctgtttgct cctccatctc cagatcggat cacggtgagg gaaagatgag cgaggagacg    120
gcgacttctg acaacgataa tagttatgca cgagtgcgag ctgtggtgat gacccgagat    180

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gactcaagtg	gtggatggtt	accacttgga	gggagtggac	taagcagcgt	cactgtcttc	240
aaagtccctc	atcaggaaga	gaatggctgt	gctgactttt	ttatccgtgg	agagcgactc	300
agggacaaaa	tggtggtttt	ggaatgtatg	cttaaaaaag	acctcattta	taataaggtc	360
actccaacat	ttcaccactg	gaagattgat	gacaaaaagt	ttggctttac	gtttcaaagt	420
cctgctgatg	ctagggcttt	tgatagaggt	atccgaagag	ctatagagga	tatttctcaa	480
ggatgccccg	aatcaaaaaa	tgaagctgaa	ggggcagatg	acttacaagc	aaatgaagag	540
gattctttcca	gttctctagt	gaaggatcac	ctttttcagc	aagagacagt	tgttaccagt	600
gagccttata	gaagctcaaa	tataagacct	tctccctttg	aagatctgaa	tgccagaaga	660
gtctacatgc	aaagccaagc	caatcagata	acatttggtc	agccaggctt	ggacattcag	720
agcagaagta	tggaatacgt	acagcggcaa	atatccaagg	aatgtggaag	cctaaagtcc	780
caaaataggg	tccctttgaa	atcaatcaga	catgtcagct	ttcaagatga	ggatgagatt	840
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gacagtaaaa	aatcagacta	tctgtactct	tgtggggatg	agactaagtt	aagttcaccc	1020
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gttagttgca	tgctctgtgc	agagagcatg	ttgtatcatt	gtatgtcaga	ctcagagggg	1260
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gttttatgta	taaataacaa	atgtttatat	ttaactaaat	gtaaggtagc	aattattaca	1980
tattaaactt	ttcttcccct	tcctagttct	gaagtagata	tatagatata	tatatctact	2040

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 cgaatgattt gatattttca tccttatttc tctttggcta caatttatat tgagttatat 2160  
 ctgtacattc tggtaatcta aaatccttaa aaatactcta atagccttga gtgaccaact 2220  
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 tttttgtggt attcaaccag caagttgttt tctttcagag tttcctcctt caaaaagtta 2400  
 tattgcattt acaaagtgtt tacaaggcag aaagtttgac tggatagtta gtgtaaaagc 2460  
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 aatttttcag cttaatcctc agtgcttatt atttacataa caataacttt ttatcagtta 2580  
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 ttaagaaagc atttatattt atatgacagc ttgaactgac aacattgtgt atatagatca 3180  
 tcttgaagta ttatttcaca ttgaaaagaa gaaaatatat tgataactat agatgttatg 3240  
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 tctgtactgt attttatatg caacatatat gctttaatat tttaatgttt gtgcattaat 3720  
 attttcaatt tgtttaacca ctttgctgct aagattttgc cgtcccatc ccatTTTTTc 3780  
 ctttacaatt ttaaacaagt ttcctcatta aaaact 3816

&lt;211&gt; 3258

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 257

```

accactgctt cattgctgct gagaatgttc caggctgagt gagaagtaaa aattcatcat      60
ctctgaagaa ctcttaccga gccctgttga agaaattccc agaatgttga tgggagcaac     120
tagagatatg ggaagcaggt gccttctgca tgcctcagtt cctggaatgc tgcttatctg     180
gtcaatatta caaatgatga atatttcagc ttctgtgcc cagtgcaatg aaaatgccag     240
ctgcttcaac agcaccact gtgtttgtaa agaaggattc tggacgggct ctgagaatag     300
aagaattatt gagccccatg agaaatgtca agatattaat gagtgtctac tgaaagaatt     360
ggatatgcaag gatgtgtcgt actgcagaaa taaaattggg acttacatat gcagctgtgt     420
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ttatgtgaac aagagcaaga atacaggatc aaaaacacat actttgggag tactgagtga     540
atttaaatcc aaagaggagg ttgcaaaagg agctaccaag ttacttcgca aagtggaaca     600
tcacatcttg aatgaaaact cagatatacc aaaaaggat gaaaatcctt tattggatat     660
agtgtatgaa actaagaggt gcaagacgat gactcttcta gaagctggca acaacacaat     720
gaagggttgac tgcactagtg gtttcaaaga gcacaacagt ggagggtgaaa ctgcagtggc     780
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caaacctgtc ctctctgaac ctgtactcct gactttacaa aatattcagc ccattgactc     960
aagagcagaa catctctgtg tccattggga aggatcagag gaagggggga gctggtctac    1020
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gatgtttctg gaagggttac atcttttct cactgtgagc aatctcaaag tggccaacta    1440
cagcaactca ggcagattca agaagagggt catgtatcct gtaggatatg ggcttcctgc    1500
ttttattgtt gctgtatctg caatagctgg ccacaagaat tatggaacac acaaccactg    1560
ctggctcagc cttcatcgag gattcatctg gagcttcttg gggccagcgg cagccattat    1620

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## 69014-PRO2.ST25.txt

cttgataaac ctggtgttct acttttcta aatattggatt ttgagaagca aactttcttc 1680  
 tctcaataaa gaagtttcta cacttcaaga cacaaagggt atgacattta aagccattgt 1740  
 ccagttatct gtgttgggat gttcttggg cattggcttg tttattttca ttgaagttgg 1800  
 gaagacagtg agactgatcg ttgcctatct gttcaccatc atcaatgtcc tgcagggtgt 1860  
 tttgatattt atggtacatt gtctgcttaa tcgccagggt cggtatggaat ataagaagtg 1920  
 gtttcataga ctgcggaagg aagttgaaag tgaaagcact gaagtgtctc attctactac 1980  
 tcacacaaaa atgggtcttt ctctgaacct ggaaaatttc tgcccaacag gaaacctcca 2040  
 tgatccttct gactccatcc ttccaagtac tgaagtagca ggtgtatata taagcacacc 2100  
 caggtctcac atgggtgctg aggatgtgaa ctgaggtact cacgcttact ggagcagaac 2160  
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 cactattttc ttttcagtta acctttattg gtatttagtt cctgtgtagt gtataccact 2460  
 ggaatatttt tatttcttta attttgaggt taaaatatag ttacatcatt tttccttttt 2520  
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 tattactttt tcttccatag aaaaactatt tgtcttcag gattagatat gatcaatatt 3180  
 tcttatatgc atgtatcaaa tatcatgatg aaatatatta ctgtgtataa ttaataactg 3240  
 gcaataaagt ccaagggg 3258

&lt;210&gt; 258

&lt;211&gt; 1371

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 258

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atggggagca ggttcctcct ggtcctgctc tcaggtgctt cctgtcctcc atgccctaaa    60
tatgccagct gccacaacag caccactgtt acttgtgaag atggccttcg ggccagggtct    120
ggcaggacat actttcatga ttctctgag aagtgtgaag atattaatga atgtgaaacc    180
gggctggcaa agtgcaagta taaagcatat tgttaggaata aagttggagg ttacatctgt    240
agctgtttgg taaaatatac ttattcaac tttctggctg gtattataga ttatgatcat    300
ccggattggt acgagaacaa tagtcaaggg acgacacagt caaacgtgga tatttggggtg    360
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gctcttgccc ccaaggagga ccctgtgctg accgtgatca cccagggtggg gctgaccatc    600
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accagcacct cctccatct agagctctcc ctctgcctct tcctggccca cctcctgttc    720
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ccccagaatt atggaacatt tacttggttg ctcaagcttg ataaaggatt catctggagc   1020
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ggttttttta tggttgaaga agtagggaag acgattggat caatcattgc atactcattc   1260
accatcatca acacccttca gggagtgttg ctctttgtgg tacactgtct ccttaatcgc   1320
caggtaaggc taattatatt gtctgtcatc agcctagtcc caaagtctaa t             1371

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&lt;210&gt; 259

&lt;211&gt; 3108

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 259

## 69014-PRO2.ST25.txt

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cttcgggaaa	aacagcagat	tacgcctttg	agatggctgt	ctcaaataatt	agatatggag	180
caggggttac	gaaggaagta	ggcatggatc	tacagaatat	gggagctaag	aatgtttgct	240
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cgaagaatgg	catcagtttt	caggtttatg	atgatgtaag	gggtggaacct	acagatggaa	360
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ccaccctggg	actggttgat	cccctgcaca	ctctccacat	gccttgccag	gtggttgcca	720
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## 69014-PRO2.ST25.txt

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&lt;210&gt; 260

&lt;211&gt; 1831

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 260

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## 69014-PRO2.ST25.txt

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&lt;210&gt; 261

&lt;211&gt; 2990

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 261

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&lt;211&gt; 2581

&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 262

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## 69014-PRO2.ST25.txt

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&lt;211&gt; 184

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 263

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ttga						184

&lt;210&gt; 264

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 264

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&lt;210&gt; 265

&lt;211&gt; 1790

&lt;212&gt; DNA

&lt;213&gt; Rat

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&lt;210&gt; 266

&lt;211&gt; 4266

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 266

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&lt;211&gt; 243

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 267

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&lt;211&gt; 414

&lt;212&gt; DNA

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&lt;223&gt; n=a,c,t or g

&lt;400&gt; 269

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&lt;210&gt; 270

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; Rat

&lt;400&gt; 270

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&lt;211&gt; 1357

&lt;212&gt; DNA

&lt;213&gt; Rat

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<213> Rat

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## 69014-PRO2.ST25.txt

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&lt;212&gt; DNA

&lt;213&gt; Human

&lt;400&gt; 273

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<213> Rat

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 Gln Thr Ala Thr Asp Pro Ser Gly Thr Pro Ala Pro Ser Ser Lys Val  
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 Ser Glu Gln Thr Ala Gly Asp Lys Asp Met Gly Ser Phe Ser Val Thr  
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 Ser Ser Glu Asp Ala Phe Ser Gly Val Phe Gly Ile Met Asp Ala Ala  
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 Lys Gly Met Val Gln Gly Gly Leu Gly Ala Thr Gln Ser Ala Leu Val  
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 Gly Thr Lys Glu Ala Val Ser Gly Gly Val Met Gly Ala Val Gly Val  
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 Thr Asn Thr Lys Asp Thr Val Thr Thr Gly Val Met Gly Ala Ala Asn  
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 Met Ala Lys Gly Thr Val Gln Thr Gly Leu Asp Thr Thr Lys Ser Val  
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 Val Met Gly Thr Lys Asp Thr Val Ala Thr Gly Leu Ala Gly Ala Val  
 195 200 205  
 Asn Val Ala Lys Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr Lys Ser  
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 Val Val Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala  
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 Ser Val Val Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly  
 260 265 270

Ala Met Asn Val Ala Lys Gly Thr Ala Gln Met Gly Ile Asp Thr Ser  
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 Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys Ala Gly Ala Thr  
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 385 390 395 400  
 Gly Leu Thr Gly Ala Ile Asn Val Ala Lys Gly Ala Ala Gln Gly Gly  
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 420 425 430  
 Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys Gly Thr Ile Gln Gly  
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 450 455 460  
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 485 490 495  
 Val Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys Gly Ala Ala  
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 Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met Gly Thr Lys Asp  
 Page 428



515

520

525

Thr Val Thr Thr Gly Leu Thr Gly Ala Met Asn Val Ala Lys Gly Thr  
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Ala Gln Met Gly Leu Gly Thr Ser Lys Thr Val Leu Thr Gly Thr Lys  
 545 550 555 560

Asp Thr Val Cys Ala Gly Leu Thr Gly Ala Ile Asn Val Ala Lys Gly  
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Ala Ala Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Leu Met Gly Thr  
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Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala Lys  
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Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met Gly  
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Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Val Asn Val Ala  
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Lys Gly Ala Val Gln Gly Gly Leu Asp Thr Thr Lys Ser Val Val Met  
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Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Leu Asn Val  
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Ala Lys Gly Thr Ala Gln Met Gly Ile Asp Thr Ser Lys Thr Val Leu  
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Ile Gly Thr Lys Asp Thr Val Cys Ala Gly Ala Thr Gly Ala Ile Asn  
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Leu Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala Ile  
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Asn Val Ala Lys Gly Ser Ala Gln Gly Gly Leu Asp Thr Thr Lys Ser  
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Val Leu Ile Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr Gly Ala  
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Leu Asn Val Ala Lys Gly Thr Val Gln Thr Gly Leu Asp Thr Ser Gln  
 770 775 780

Arg Val Leu Thr Gly Thr Lys Asp Asn Val Tyr Ala Gly Val Thr Gly  
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Ala Val Asn Val Ala Lys Gly Thr Ile Gln Gly Gly Leu Asp Thr Thr  
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Lys Ser Val Val Met Gly Thr Lys Asp Thr Val Thr Thr Gly Leu Thr  
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Gly Ala Val Asn Val Ala Lys Gly Ala Val Gln Gly Gly Leu Asp Thr  
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Thr Gly Ala Met Asn Val Ala Lys Gly Thr Ala Gln Met Gly Ile Asp  
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Thr Ser Lys Thr Val Leu Thr Gly Thr Lys Asp Thr Val Cys Ala Gly  
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Asp Thr Thr Lys Ser Val Leu Met Gly Thr Lys Asp Thr Val Thr Thr  
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Gly Leu Asp Thr Ser Lys Asn Ile Leu Met Asp Thr Lys Asp Ser Ile  
 980 985 990

Cys Ala Gly Ala Thr Gly Ala Ile Thr Val Val Lys Gly Ala Ala Gln  
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<213> Homo sapiens

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Ala Val Leu His Val Leu Lys Gly Thr Ala Ile Leu Gln Val Leu Thr  
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Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val Leu His Val  
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Leu Lys Gly Thr Ala Val Leu Gln Val Leu Thr Gly Thr Ala Val Leu  
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His Val Leu Lys Gly Thr Ala Val Leu His Val Leu Thr Gly Thr Thr  
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Thr Ala Ile Leu Gln Val Leu Thr Gly Thr Ala Val Leu His Val Leu  
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Lys Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val Leu Gln  
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Val Leu Thr Gly Thr Ala Val Leu His Val Leu Lys Gly Thr Ala Val  
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Leu His Val Leu Thr Gly Thr Ala Val Leu His Val Leu Lys Gly Thr  
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 Leu Lys Gly Thr Ala Val Leu His Val Leu Thr Gly Thr Ala Val Leu  
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 His Val Leu Lys Gly Thr Ala Val Leu Gln Val Leu Thr Gly Thr Ala  
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 Ile Leu His Val Leu Lys Gly Thr Ala Val Leu His Val Leu Lys Gly  
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 Thr Ala Val Arg Cys Met Leu Lys Gly Thr Ala Val Leu His Ile Leu  
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 Ala Leu His Gly Leu Thr Ala Pro Pro Val Ser Thr Cys Ser Gln Gly  
 405 410 415  
 Thr Thr Thr Leu His Pro Leu Lys Val Thr Ala Ala Leu His Thr Gln  
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 Gly Thr Gln Asp Ser His Arg Trp Ser Phe Phe Ser Leu Arg Gly Lys  
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435

440

445

Ala Lys  
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&lt;210&gt; 503

&lt;211&gt; 439

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

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35 40 45Arg Ala His Gly His Cys His Phe Ser Pro Leu Lys Gly Thr Ala Val  
50 55 60Leu Arg Val Leu Lys Gly Thr Ala Val Leu His Val Leu Thr Gly Thr  
65 70 75 80Thr Val Leu His Val Leu Lys Gly Thr Ala Val Leu His Val Leu Lys  
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 370 375 380  
 Gly Thr Thr Thr Leu His Pro Leu Lys Val Thr Ala Ala Leu His Thr  
 385 390 395 400  
 Gln Gly Thr Gln Asp Ser His Arg Trp Ser Phe Phe Ser Leu Arg Gly  
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 Lys Ala Lys Ala Pro Pro Ile Leu Gly Pro Trp Ser Thr Trp Ser Thr  
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Val Gln Cys Glu Leu Cys Leu  
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<213> mus musculus

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Arg Arg Gln Arg Ala Pro Asn  
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<212> PRT

<213> Homo sapiens

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Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Leu Glu Cys Cys Ile Tyr  
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Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala  
35 40 45

Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala Tyr Thr Val  
50 55 60

Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg Arg Gln Arg Ala Pro  
65 70 75 80

Asn

&lt;210&gt; 506

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 506

Met Ala Ala Val Ala Ala Ala Ser Ala Glu Leu Leu Ile Ile Gly Trp  
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Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Arg Tyr Ser Leu Gln Lys  
 20 25 30

Leu Ala His Thr Val Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg  
 35 40 45

Arg Gln Arg Ala Pro Asn  
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&lt;210&gt; 507

&lt;211&gt; 54

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 507

Met Ala Ala Val Ala Ala Ala Ser Ala Glu Leu Leu Ile Ile Gly Trp  
 1 5 10 15

Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Arg Tyr Ser Leu Gln Lys  
 20 25 30

Leu Ala Tyr Thr Val Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg  
 35 40 45

Arg Gln Arg Ala Pro Asn  
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&lt;210&gt; 508



&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 508

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Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Leu Glu Cys Cys Ile Tyr  
 20 25 30

Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala  
 35 40 45

Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala His Thr Val  
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Ser Arg Thr Gly Arg Gln Val Leu Gly Glu Arg Arg Gln Arg Ala Pro  
 65 70 75 80

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&lt;210&gt; 509

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 509

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Tyr Ile Phe Arg Val Leu Leu Gln Val Phe Leu Glu Cys Cys Ile Tyr  
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Trp Val Gly Phe Ala Phe Arg Asn Pro Pro Gly Thr Gln Pro Ile Ala  
 35 40 45

Arg Ser Glu Val Phe Arg Tyr Ser Leu Gln Lys Leu Ala Tyr Thr Val  
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Gly Gly Leu Ser Gln Pro Leu His Cys Pro Ser Val Leu Pro Ser Val  
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Gln Pro Arg Thr His Pro Ser Gln Ser Gln Pro Phe Ala Asp Leu Ser  
 50 55 60

Pro Glu Glu Leu Thr Ala Val Met Ser Phe Leu Thr Lys His Leu Gly  
 65 70 75 80

Pro Gly Leu Val Asp Ala Ala Gln Ala Arg Pro Ser Asp Asn Cys Val  
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Phe Ser Val Glu Leu Gln Leu Pro Ala Lys Ala Ala Ala Leu Ala His  
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Leu Asp Arg Gly Gly Pro Pro Pro Val Arg Glu Ala Leu Ala Ile Ile  
 115 120 125

Phe Phe Gly Gly Gln Pro Lys Pro Asn Val Ser Glu Leu Val Val Gly  
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Pro Leu Pro His Pro Ser Tyr Met Arg Asp Val Thr Val Glu Arg His  
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Gly Gly Pro Leu Pro Tyr Tyr Arg Arg Pro Val Leu Asp Arg Glu Tyr  
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 Gly Leu Leu His His Cys Cys Phe Tyr Lys His Gln Gly Gln Asn Leu  
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 Thr Trp Phe Gly Leu Tyr Tyr Asn Leu Ser Gly Ala Gly Phe Tyr Pro  
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 His Pro Ile Gly Leu Glu Leu Leu Ile Asp His Lys Ala Leu Asp Pro  
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 Ala Leu Trp Thr Ile Gln Lys Val Phe Tyr Gln Gly Arg Tyr Tyr Glu  
 260 265 270  
 Ser Leu Thr Gln Leu Glu Asp Gln Phe Glu Ala Gly Leu Val Asn Val  
 275 280 285  
 Val Leu Val Pro Asn Asn Gly Thr Gly Gly Ser Trp Ser Leu Lys Ser  
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 325 330 335  
 Phe Ser Phe Gly Leu Gly Ala Phe Ser Gly Pro Arg Ile Phe Asp Ile  
 340 345 350  
 Arg Phe Gln Gly Glu Arg Val Ala Tyr Glu Ile Ser Val Gln Glu Ala  
 355 360 365  
 Ile Ala Leu Tyr Gly Gly Asn Ser Pro Ala Ser Met Ser Thr Cys Tyr  
 370 375 380  
 Val Asp Gly Ser Phe Gly Ile Gly Lys Tyr Ser Thr Pro Leu Ile Arg  
 385 390 395 400  
 Gly Val Asp Cys Pro Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu  
 405 410 415  
 Leu Glu Ser Gln Ala Pro Lys Thr Leu Arg Asp Ala Phe Cys Val Phe  
 420 425 430

Glu Gln Asn Gln Gly Leu Pro Leu Arg Arg His His Ser Asp Phe Tyr  
 435 440 445  
 Ser His Tyr Phe Gly Gly Val Val Gly Thr Val Leu Val Val Arg Ser  
 450 455 460  
 Val Ser Thr Leu Leu Asn Tyr Asp Tyr Ile Trp Asp Met Val Phe His  
 465 470 475 480  
 Pro Asn Gly Ala Ile Glu Val Lys Phe His Ala Thr Gly Tyr Ile Ser  
 485 490 495  
 Ser Ala Phe Phe Phe Gly Ala Gly Glu Lys Phe Gly Asn Arg Val Gly  
 500 505 510  
 Ala His Thr Leu Gly Thr Val His Thr His Ser Ala His Phe Lys Val  
 515 520 525  
 Asp Leu Asp Val Ala Gly Leu Lys Asn Trp Ala Trp Ala Glu Asp Met  
 530 535 540  
 Ala Phe Val Pro Thr Ile Val Pro Trp Gln Pro Glu Tyr Gln Met Gln  
 545 550 555 560  
 Arg Leu Gln Val Thr Arg Lys Leu Leu Glu Thr Glu Glu Glu Ala Ala  
 565 570 575  
 Phe Pro Leu Gly Gly Ala Thr Pro Arg Tyr Leu Tyr Leu Ala Ser Asn  
 580 585 590  
 His Ser Asn Lys Trp Gly His Arg Arg Gly Tyr Arg Ile Gln Ile Leu  
 595 600 605  
 Ser Phe Ala Gly Lys Pro Leu Pro Gln Glu Ser Pro Ile Glu Lys Ala  
 610 615 620  
 Phe Thr Trp Gly Arg Tyr His Leu Ala Val Thr Gln Arg Lys Glu Glu  
 625 630 635 640  
 Glu Pro Ser Ser Ser Ile Phe Asn Gln Asn Asp Pro Trp Thr Pro  
 645 650 655  
 Thr Val Asn Phe Thr Asp Phe Ile Ser Asn Glu Thr Ile Ala Gly Glu  
 660 665 670  
 Asp Leu Val Ala Trp Val Thr Ala Gly Phe Leu His Ile Pro His Ala  
 Page 440

675

680

685

Glu Asp Ile Pro Asn Thr Val Thr Ala Gly Asn Ser Val Gly Phe Phe  
 690 695 700

Leu Arg Pro Tyr Asn Phe Phe Asp Glu Asp Pro Ser Phe His Ser Ala  
 705 710 715 720

Asp Ser Ile Tyr Phe Arg Glu Gly Gln Asp Ala Thr Ala Cys Glu Val  
 725 730 735

Asn Pro Leu Ala Cys Leu Ser Gln Thr Ala Thr Cys Ala Pro Glu Ile  
 740 745 750

Pro Ala Phe Ser His Gly Gly Phe Ala Tyr Arg Asp Asn  
 755 760 765

<210> 511

<211> 763

<212> PRT

<213> Homo sapiens

<400> 511

Met Asn Gln Lys Thr Ile Leu Val Leu Leu Ile Leu Ala Val Ile Thr  
 1 5 10 15

Ile Phe Ala Leu Val Cys Val Leu Leu Val Gly Arg Gly Gly Asp Gly  
 20 25 30

Gly Glu Pro Ser Gln Leu Pro His Cys Pro Ser Val Ser Pro Ser Ala  
 35 40 45

Gln Pro Trp Thr His Pro Gly Gln Ser Gln Leu Phe Ala Asp Leu Ser  
 50 55 60

Arg Glu Glu Leu Thr Ala Val Met Arg Phe Leu Thr Gln Arg Leu Gly  
 65 70 75 80

Pro Gly Leu Val Asp Ala Ala Gln Ala Arg Pro Ser Asp Asn Cys Val  
 85 90 95

Phe Ser Val Glu Leu Gln Leu Pro Pro Lys Ala Ala Ala Leu Ala His  
 100 105 110

Leu Asp Arg Gly Ser Pro Pro Pro Ala Arg Glu Ala Leu Ala Ile Val  
 115 120 125  
 Phe Phe Gly Arg Gln Pro Gln Pro Asn Val Ser Glu Leu Val Val Gly  
 130 135 140  
 Pro Leu Pro His Pro Ser Tyr Met Arg Asp Val Thr Val Glu Arg His  
 145 150 155 160  
 Gly Gly Pro Leu Pro Tyr His Arg Arg Pro Val Leu Phe Gln Glu Tyr  
 165 170 175  
 Leu Asp Ile Asp Gln Met Ile Phe Asn Arg Glu Leu Pro Gln Ala Ser  
 180 185 190  
 Gly Leu Leu His His Cys Cys Phe Tyr Lys His Arg Gly Arg Asn Leu  
 195 200 205  
 Val Thr Met Thr Thr Ala Pro Arg Gly Leu Gln Ser Gly Asp Arg Ala  
 210 215 220  
 Thr Trp Phe Gly Leu Tyr Tyr Asn Ile Ser Gly Ala Gly Phe Phe Leu  
 225 230 235 240  
 His His Val Gly Leu Glu Leu Leu Val Asn His Lys Ala Leu Asp Pro  
 245 250 255  
 Ala Arg Trp Thr Ile Gln Lys Val Phe Tyr Gln Gly Arg Tyr Tyr Asp  
 260 265 270  
 Ser Leu Ala Gln Leu Glu Ala Gln Phe Glu Ala Gly Leu Val Asn Val  
 275 280 285  
 Val Leu Ile Pro Asp Asn Gly Thr Gly Gly Ser Trp Ser Leu Lys Ser  
 290 295 300  
 Pro Val Pro Pro Gly Pro Ala Pro Pro Leu Gln Phe Tyr Pro Gln Gly  
 305 310 315 320  
 Pro Arg Phe Ser Val Gln Gly Ser Arg Val Ala Ser Ser Leu Trp Thr  
 325 330 335  
 Phe Ser Phe Gly Leu Gly Ala Phe Ser Gly Pro Arg Ile Phe Asp Val  
 340 345 350  
 Arg Phe Gln Gly Glu Arg Leu Val Tyr Glu Ile Ser Leu Gln Glu Ala  
 355 360 365

## 69014-PRO2.ST25.txt

Leu Ala Ile Tyr Gly Gly Asn Ser Pro Ala Ala Met Thr Thr Arg Tyr  
 370 375 380  
 Val Asp Gly Gly Phe Gly Met Gly Lys Tyr Thr Thr Pro Leu Thr Arg  
 385 390 395 400  
 Gly Val Asp Cys Pro Tyr Leu Ala Thr Tyr Val Asp Trp His Phe Leu  
 405 410 415  
 Leu Glu Ser Gln Ala Pro Lys Thr Ile Arg Asp Ala Phe Cys Val Phe  
 420 425 430  
 Glu Gln Asn Gln Gly Leu Pro Leu Arg Arg His His Ser Asp Leu Tyr  
 435 440 445  
 Ser His Tyr Phe Gly Gly Leu Ala Glu Thr Val Leu Val Val Arg Ser  
 450 455 460  
 Met Ser Thr Leu Leu Asn Tyr Asp Tyr Val Trp Asp Thr Val Phe His  
 465 470 475 480  
 Pro Ser Gly Ala Ile Glu Ile Arg Phe Tyr Ala Thr Gly Tyr Ile Ser  
 485 490 495  
 Ser Ala Phe Leu Phe Gly Ala Thr Gly Lys Tyr Gly Asn Gln Val Ser  
 500 505 510  
 Glu His Thr Leu Gly Thr Val His Thr His Ser Ala His Phe Lys Val  
 515 520 525  
 Asp Leu Asp Val Ala Gly Leu Glu Asn Trp Val Trp Ala Glu Asp Met  
 530 535 540  
 Val Phe Val Pro Met Ala Val Pro Trp Ser Pro Glu His Gln Leu Gln  
 545 550 555 560  
 Arg Leu Gln Val Thr Arg Lys Leu Leu Glu Met Glu Glu Gln Ala Ala  
 565 570 575  
 Phe Leu Val Gly Ser Ala Thr Pro Arg Tyr Leu Tyr Leu Ala Ser Asn  
 580 585 590  
 His Ser Asn Lys Trp Gly His Pro Arg Gly Tyr Arg Ile Gln Met Leu  
 595 600 605  
 Ser Phe Ala Gly Glu Pro Leu Pro Gln Asn Ser Ser Met Ala Arg Gly  
 610 615 620

Phe Ser Trp Glu Arg Tyr Gln Leu Ala Val Thr Gln Arg Lys Glu Glu  
625 630 635 640

Glu Pro Ser Ser Ser Val Phe Asn Gln Asn Asp Pro Trp Ala Pro  
645 650 655

Thr Val Asp Phe Ser Asp Phe Ile Asn Asn Glu Thr Ile Ala Gly Lys  
660 665 670

Asp Leu Val Ala Trp Val Thr Ala Gly Phe Leu His Ile Pro His Ala  
675 680 685

Glu Asp Ile Pro Asn Thr Val Thr Val Gly Asn Gly Val Gly Phe Phe  
690 695 700

Leu Arg Pro Tyr Asn Phe Phe Asp Glu Asp Pro Ser Phe Tyr Ser Ala  
705 710 715 720

Asp Ser Ile Tyr Phe Arg Gly Asp Gln Asp Ala Gly Ala Cys Glu Val  
725 730 735

Asn Pro Leu Ala Cys Leu Pro Gln Ala Ala Ala Cys Ala Pro Asp Leu  
740 745 750

Pro Ala Phe Ser His Gly Gly Phe Ser His Asn  
755 760

<210> 512

<211> 1

<212> DNA

<213> Place holder

<400> 512

a

1

<210> 513

<211> 164

<212> PRT

<213> Homo sapiens

<400> 513



Met Leu Ala Asp Lys Pro Phe Phe Leu Val Leu Glu Glu Asp Gly Thr  
 1 5 10 15  
 Thr Val Glu Thr Glu Glu Tyr Phe Gln Ala Leu Ala Gly Asp Thr Val  
 20 25 30  
 Phe Met Val Leu Gln Lys Gly Gln Lys Trp Gln Pro Pro Ser Glu Gln  
 35 40 45  
 Gly Thr Arg His Pro Leu Ser Leu Ser His Lys Pro Ala Lys Lys Ile  
 50 55 60  
 Asp Val Ala Arg Val Thr Phe Asp Leu Tyr Lys Leu Asn Pro Gln Asp  
 65 70 75 80  
 Phe Ile Gly Cys Leu Asn Val Lys Ala Thr Phe Tyr Asp Thr Tyr Ser  
 85 90 95  
 Leu Ser Tyr Asp Leu His Cys Cys Gly Ala Lys Arg Ile Met Lys Glu  
 100 105 110  
 Ala Phe Arg Trp Ala Leu Phe Ser Met Gln Ala Thr Gly His Val Leu  
 115 120 125  
 Leu Gly Thr Ser Cys Tyr Leu Gln Gln Leu Leu Asp Ala Thr Glu Glu  
 130 135 140  
 Gly Gln Pro Pro Lys Gly Lys Ala Ser Ser Leu Ile Pro Thr Cys Leu  
 145 150 155 160  
 Lys Ile Leu Gln

&lt;210&gt; 514

&lt;211&gt; 1

&lt;212&gt; DNA

&lt;213&gt; Place holder

&lt;400&gt; 514

a

1

&lt;210&gt; 515

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 515

Met Val Arg Arg Asp Arg Leu Arg Arg Met Arg Glu Trp Trp Val Gln  
 1 5 10 15

Val Gly Leu Leu Ala Val Pro Leu Leu Ala Ala Tyr Leu His Ile Pro  
 20 25 30

Pro Pro Gln Leu Ser Pro Ala Leu His Ser Trp Lys Thr Ser Gly Lys  
 35 40 45

Phe Phe Thr Tyr Lys Gly Leu Arg Ile Phe Tyr Gln  
 50 55 60

&lt;210&gt; 516

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

Met Val Arg Arg Asp Arg Leu Arg Arg Met Arg Glu Trp Trp Val Gln  
 1 5 10 15

Val Gly Leu Leu Ala Val Pro Leu Leu Ala Ala Tyr Leu His Ile Pro  
 20 25 30

Pro Pro Gln Leu Ser Pro Ala Leu His Ser Trp Lys Ser Ser Gly Lys  
 35 40 45

Phe Phe Thr Tyr Lys Gly Leu Arg Ile Phe Tyr Gln Asp Ser Val Gly  
 50 55 60

Val Val Gly Ser Pro Glu Ile Val Val Leu Leu His Gly Phe Pro Thr  
 65 70 75 80

Ser Ser Tyr Asp Trp Tyr Lys Ile Trp Glu Gly Leu Thr Leu Arg Phe  
 85 90 95

His Arg Val Ile Ala Leu Asp Phe Leu Gly Phe Gly Phe Ser Asp Lys  
 100 105 110

## 69014-PRO2.ST25.txt

Pro Arg Pro His His Tyr Ser Ile Phe Glu Gln Ala Ser Ile Val Glu  
 115 120 125  
 Ala Leu Leu Arg His Leu Gly Leu Gln Asn Arg Arg Ile Asn Leu Leu  
 130 135 140  
 Ser His Asp Tyr Gly Asp Ile Val Ala Gln Glu Leu Leu Tyr Arg Tyr  
 145 150 155 160  
 Lys Gln Asn Arg Ser Gly Arg Leu Thr Ile Lys Ser Leu Cys Leu Ser  
 165 170 175  
 Asn Gly Gly Ile Phe Pro Glu Thr His Arg Pro Leu Leu Leu Gln Lys  
 180 185 190  
 Leu Leu Lys Asp Gly Gly Val Leu Ser Pro Ile Leu Thr Arg Leu Met  
 195 200 205  
 Asn Phe Phe Val Phe Ser Arg Gly Leu Thr Pro Val Phe Trp Pro Tyr  
 210 215 220  
 Thr Arg Pro Ser Glu Ser Glu Leu Trp Asp Met Trp Ala Gly Ile Arg  
 225 230 235 240  
 Asn Asn Asp Gly Asn Leu Val Ile Asp Ser Leu Leu Gln Tyr Ile Asn  
 245 250 255  
 Gln Arg Lys Lys Phe Arg Arg Arg Trp Val Gly Ala Leu Ala Ser Val  
 260 265 270  
 Thr Ile Pro Ile His Phe Ile Tyr Gly Pro Leu Asp Pro Val Asn Pro  
 275 280 285  
 Tyr Pro Glu Phe Leu Glu Leu Tyr Arg Lys Thr Leu Pro Arg Ser Thr  
 290 295 300  
 Val Ser Ile Leu Asp Asp His Ile Ser His Tyr Pro Gln Leu Glu Asp  
 305 310 315 320  
 Pro Met Gly Phe Leu Asn Ala Tyr Met Gly Phe Ile Asn Ser Phe  
 325 330 335

&lt;210&gt; 517

&lt;211&gt; 336

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 517

Met Arg Tyr Leu Pro Trp Leu Leu Leu Trp Ala Phe Leu Gln Val Trp  
 1 5 10 15

Gly Gln Ser Glu Ala Gln Gln Lys Asn Tyr Thr Phe Arg Cys Leu Gln  
 20 25 30

Met Ser Ser Phe Ala Asn Arg Ser Trp Ser Arg Thr Asp Ser Val Val  
 35 40 45

Trp Leu Gly Asp Leu Gln Thr His Arg Trp Ser Asn Asp Ser Ala Thr  
 50 55 60

Ile Ser Phe Thr Lys Pro Trp Ser Gln Gly Lys Leu Ser Asn Gln Gln  
 65 70 75 80

Trp Glu Lys Leu Gln His Met Phe Gln Val Tyr Arg Val Ser Phe Thr  
 85 90 95

Arg Asp Ile Gln Glu Leu Val Lys Met Met Ser Pro Lys Glu Asp Tyr  
 100 105 110

Pro Ile Glu Ile Gln Leu Ser Ala Gly Cys Glu Met Tyr Pro Gly Asn  
 115 120 125

Ala Ser Glu Ser Phe Leu His Val Ala Phe Gln Gly Lys Tyr Val Val  
 130 135 140

Arg Phe Trp Gly Thr Ser Trp Gln Thr Val Pro Gly Ala Pro Ser Trp  
 145 150 155 160

Leu Asp Leu Pro Ile Lys Val Leu Asn Ala Asp Gln Gly Thr Ser Ala  
 165 170 175

Thr Val Gln Met Leu Leu Asn Asp Thr Cys Pro Leu Phe Val Arg Gly  
 180 185 190

Leu Leu Glu Ala Gly Lys Ser Asp Leu Glu Lys Gln Glu Lys Pro Val  
 195 200 205

Ala Trp Leu Ser Ser Val Pro Ser Ser Ala Asp Gly His Arg Gln Leu  
 210 215 220

Val Cys His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Met Cys  
 Page 448

69014-PRO2.ST25.txt

225                      230                      235                      240

Met Arg Gly Asp Gln Glu Gln Gln Gly Thr His Arg Gly Asp Phe Leu  
245 250 255

Pro Asn Ala Asp Glu Thr Trp Tyr Leu Gln Ala Thr Leu Asp Val Glu  
260 265 270

Ala Gly Glu Glu Ala Gly Leu Ala Cys Arg Val Lys His Ser Ser Leu  
275 280 285

Gly Gly Gln Asp Ile Ile Leu Tyr Trp Asp Ala Arg Gln Ala Pro Val  
290 295 300

Gly Leu Ile Val Phe Ile Val Leu Ile Met Leu Val Val Val Gly Ala  
305 310 315 320

Val Val Tyr Tyr Ile Trp Arg Arg Arg Ser Ala Tyr Gln Asp Ile Arg  
325 330 335

<210> 518

**<211> 335**

<212> PRT

<213> Homo sapiens

<400> 518

Met Gly Cys Leu Leu Phe Leu Leu Leu Trp Ala Leu Leu Gln Ala Trp  
1 5 10 15

Gly Ser Ala Glu Val Pro Gln Arg Leu Phe Pro Leu Arg Cys Leu Gln  
20 25 30

Ile Ser Ser Phe Ala Asn Ser Ser Trp Thr Arg Thr Asp Gly Leu Ala  
35 40 45

Trp Leu Gly Glu Leu Gln Thr His Ser Trp Ser Asn Asp Ser Asp Thr  
50 . 55 60

Val Arg Ser Leu Lys Pro Trp Ser Gln Gly Thr Phe Ser Asp Gln Gln  
65 70 75 80

Trp Glu Thr Leu Gln His Ile Phe Arg Val Tyr Arg Ser Ser Phe Thr  
85 90 95

Arg Asp Val Lys Glu Phe Ala Lys Met Leu Arg Leu Ser Tyr Pro Leu  
 100 105 110

Glu Leu Gln Val Ser Ala Gly Cys Glu Val His Pro Gly Asn Ala Ser  
 115 120 125

Asn Asn Phe Phe His Val Ala Phe Gln Gly Lys Asp Ile Leu Ser Phe  
 130 135 140

Gln Gly Thr Ser Trp Glu Pro Thr Gln Glu Ala Pro Leu Trp Val Asn  
 145 150 155 160

Leu Ala Ile Gln Val Leu Asn Gln Asp Lys Trp Thr Arg Glu Thr Val  
 165 170 175

Gln Trp Leu Leu Asn Gly Thr Cys Pro Gln Phe Val Ser Gly Leu Leu  
 180 185 190

Glu Ser Gly Lys Ser Glu Leu Lys Lys Gln Val Lys Pro Lys Ala Trp  
 195 200 205

Leu Ser Arg Gly Pro Ser Pro Gly Pro Gly Arg Leu Leu Leu Val Cys  
 210 215 220

His Val Ser Gly Phe Tyr Pro Lys Pro Val Trp Val Lys Trp Met Arg  
 225 230 235 240

Gly Glu Gln Glu Gln Gln Gly Thr Gln Pro Gly Asp Ile Leu Pro Asn  
 245 250 255

Ala Asp Glu Thr Trp Tyr Leu Arg Ala Thr Leu Asp Val Val Ala Gly  
 260 265 270

Glu Ala Ala Gly Leu Ser Cys Arg Val Lys His Ser Ser Leu Glu Gly  
 275 280 285

Gln Asp Ile Val Leu Tyr Trp Gly Gly Ser Tyr Thr Ser Met Gly Leu  
 290 295 300

Ile Ala Leu Ala Val Leu Ala Cys Leu Leu Phe Leu Leu Ile Val Gly  
 305 310 315 320

Phe Thr Ser Arg Phe Lys Arg Gln Thr Ser Tyr Gln Gly Val Leu  
 325 330 335

<210> 519

<211> 123

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 519

Met Asp Val Phe Lys Lys Gly Phe Ser Ile Ala Lys Glu Gly Val Val  
 1 5 10 15

Gly Ala Val Glu Lys Thr Lys Gln Gly Val Thr Glu Ala Ala Glu Lys  
 20 25 30

Thr Lys Glu Gly Val Met Tyr Val Gly Thr Lys Thr Lys Glu Asn Val  
 35 40 45

Val Gln Ser Val Thr Ser Val Ala Glu Lys Thr Lys Glu Gln Ala Asn  
 50 55 60

Ala Val Ser Glu Ala Val Val Ser Ser Val Asn Thr Val Ala Asn Lys  
 65 70 75 80

Thr Val Glu Glu Ala Glu Asn Ile Val Val Thr Thr Gly Val Val Arg  
 85 90 95

Lys Glu Asp Leu Glu Pro Pro Ala Gln Asp Gln Glu Ala Lys Glu Gln  
 100 105 110

Glu Glu Asn Glu Glu Ala Lys Ser Gly Glu Asp  
 115 120

&lt;210&gt; 520

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 520

Met Asp Val Phe Lys Lys Gly Phe Ser Ile Ala Lys Glu Gly Val Val  
 1 5 10 15

Asp Ala Val Glu Lys Thr Lys Gln Gly Val Thr Glu Ala Ala Glu Lys  
 20 25 30

Thr Lys Glu Gly Val Met Tyr Val Gly Ala Lys Thr Lys Glu Asn Val  
 35 40 45

Val Gln Ser Val Thr Ser Val Ala Glu Lys Thr Lys Glu Gln Ala Asn  
50 55 60

Ala Val Ser Glu Ala Val Val Ser Ser Val Asn Thr Val Ala Thr Lys  
65 70 75 80

Thr Val Glu Glu Ala Glu Asn Ile Ala Val Thr Ser Gly Val Val Arg  
85 90 95

Lys Glu Asp Leu Arg Pro Ser Ala Pro Gln Gln Glu Gly Glu Ala Ser  
100 105 110

Lys Glu Lys Glu Glu Val Ala Glu Glu Ala Gln Ser Gly Gly Asp  
115 120 125

<210> 521

<211> 219

<212> PRT

<213> Mus musculus

<400> 521

Met Gly Met Ser Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Ile Phe  
1 5 10 15

Asn Leu Leu Phe Trp Val Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile  
20 25 30

Tyr Phe Leu Val Gln Asn Thr Tyr Gly Val Leu Phe Arg Asn Leu Pro  
35 40 45

Phe Leu Thr Leu Gly Asn Ile Leu Val Ile Val Gly Ser Ile Ile Met  
50 55 60

Val Val Ala Phe Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys  
65 70 75 80

Leu Leu Met Ser Phe Phe Val Leu Leu Leu Ile Ile Leu Leu Ala Glu  
85 90 95

Val Thr Ile Ala Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Thr  
100 105 110

Leu Val Ala Glu Gly Leu Asn Asp Ser Ile Gln His Tyr His Ser Asp  
Page 452



115

120

125

Asn Ser Thr Met Lys Ala Trp Asp Phe Ile Gln Thr Gln Leu Gln Cys  
 130 135 140

Cys Gly Val Asn Gly Ser Ser Asp Trp Thr Ser Gly Pro Pro Ser Ser  
 145 150 155 160

Cys Pro Ser Gly Ala Asp Val Gln Gly Cys Tyr Asn Lys Ala Lys Ser  
 165 170 175

Trp Phe His Ser Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val  
 180 185 190

Cys Val Ile Gln Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys  
 195 200 205

Gln Ile Asp Lys Thr Ser Gln Ala Leu Gly Leu  
 210 215

<210> 522

<211> 219

<212> PRT

<213> Homo sapiens

<400> 522

Met Gly Met Ser Ser Leu Lys Leu Leu Lys Tyr Val Leu Phe Phe Phe  
 1 5 10 15

Asn Leu Leu Phe Trp Ile Cys Gly Cys Cys Ile Leu Gly Phe Gly Ile  
 20 25 30

Tyr Leu Leu Ile His Asn Asn Phe Gly Val Leu Phe His Asn Leu Pro  
 35 40 45

Ser Leu Thr Leu Gly Asn Val Phe Val Ile Val Gly Ser Ile Ile Met  
 50 55 60

Val Val Ala Phe Leu Gly Cys Met Gly Ser Ile Lys Glu Asn Lys Cys  
 65 70 75 80

Leu Leu Met Ser Phe Phe Ile Leu Leu Leu Ile Ile Leu Leu Ala Glu  
 85 90 95

Val Thr Leu Ala Ile Leu Leu Phe Val Tyr Glu Gln Lys Leu Asn Glu  
 100 105 110

Tyr Val Ala Lys Gly Leu Thr Asp Ser Ile His Arg Tyr His Ser Asp  
 115 120 125

Asn Ser Thr Lys Ala Ala Trp Asp Ser Ile Gln Ser Phe Leu Gln Cys  
 130 135 140

Cys Gly Ile Asn Gly Thr Ser Asp Trp Thr Ser Gly Pro Pro Ala Ser  
 145 150 155 160

Cys Pro Ser Asp Arg Lys Val Glu Gly Cys Tyr Ala Lys Ala Arg Leu  
 165 170 175

Trp Phe His Ser Asn Phe Leu Tyr Ile Gly Ile Ile Thr Ile Cys Val  
 180 185 190

Cys Val Ile Glu Val Leu Gly Met Ser Phe Ala Leu Thr Leu Asn Cys  
 195 200 205

Gln Ile Asp Lys Thr Ser Gln Thr Ile Gly Leu  
 210 215

<210> 523

<211> 422

<212> PRT

<213> Mus musculus

<400> 523

Met Leu Gln Trp Arg Arg Arg His Cys Cys Phe Ala Lys Met Thr Trp  
 1 5 10 15

Ser Pro Lys Arg Ser Leu Leu Arg Thr Pro Leu Thr Gly Val Leu Ser  
 20 25 30

Leu Val Phe Leu Phe Ala Met Phe Leu Phe Phe Asn His His Asp Trp  
 35 40 45

Leu Pro Gly Arg Pro Gly Phe Lys Glu Asn Pro Val Thr Tyr Thr Phe  
 50 55 60

Arg Gly Phe Arg Ser Thr Lys Ser Glu Thr Asn His Ser Ser Leu Arg  
 65 70 75 80

Thr Ile Trp Lys Glu Val Ala Pro Gln Thr Leu Arg Pro His Ile Ala  
 85 90 95  
 Ser Asn Ser Ser Asn Thr Glu Leu Ser Pro Gln Gly Val Thr Gly Leu  
 100 105 110  
 Gln Asn Thr Leu Ser Ala Asn Gly Ser Ile Tyr Asn Glu Lys Gly Thr  
 115 120 125  
 Gly His Pro Asn Ser Tyr His Phe Lys Tyr Ile Ile Asn Glu Pro Glu  
 130 135 140  
 Lys Cys Gln Glu Lys Ser Pro Phe Leu Ile Leu Leu Ile Ala Ala Glu  
 145 150 155 160  
 Pro Gly Gln Ile Glu Ala Arg Arg Ala Ile Arg Gln Thr Trp Gly Asn  
 165 170 175  
 Glu Thr Leu Ala Pro Gly Ile Gln Ile Ile Arg Val Phe Leu Leu Gly  
 180 185 190  
 Ile Ser Ile Lys Leu Asn Gly Tyr Leu Gln His Ala Ile Gln Glu Glu  
 195 200 205  
 Ser Arg Gln Tyr His Asp Ile Ile Gln Gln Glu Tyr Leu Asp Thr Tyr  
 210 215 220  
 Tyr Asn Leu Thr Ile Lys Thr Leu Met Gly Met Asn Trp Val Ala Thr  
 225 230 235 240  
 Tyr Cys Pro His Thr Pro Tyr Val Met Lys Thr Asp Ser Asp Met Phe  
 245 250 255  
 Val Asn Thr Glu Tyr Leu Ile His Lys Leu Leu Lys Pro Asp Leu Pro  
 260 265 270  
 Pro Arg His Asn Tyr Phe Thr Gly Tyr Leu Met Arg Gly Tyr Ala Pro  
 275 280 285  
 Asn Arg Asn Lys Asp Ser Lys Trp Tyr Met Pro Pro Asp Leu Tyr Pro  
 290 295 300  
 Ser Glu Arg Tyr Pro Val Phe Cys Ser Gly Thr Gly Tyr Val Phe Ser  
 305 310 315 320  
 Gly Asp Leu Ala Glu Lys Ile Phe Lys Val Ser Leu Gly Ile Arg Arg  
 325 330 335

Leu His Leu Glu Asp Val Tyr Val Gly Ile Cys Leu Ala Lys Leu Arg  
 340 345 350

Val Asp Pro Val Pro Pro Pro Asn Glu Phe Val Phe Asn His Trp Arg  
 355 360 365

Val Ser Tyr Ser Ser Cys Lys Tyr Ser His Leu Ile Thr Ser His Gln  
 370 375 380

Phe Gln Pro Ser Glu Leu Ile Lys Tyr Trp Asn His Leu Gln Gln Asn  
 385 390 395 400

Lys His Asn Ala Cys Ala Asn Ala Ala Lys Glu Lys Ala Gly Arg Tyr  
 405 410 415

Arg His Arg Lys Leu His  
 420

<210> 524

<211> 422

<212> PRT

<213> Homo sapiens

<400> 524

Met Leu Gln Trp Arg Arg Arg His Cys Cys Phe Ala Lys Met Thr Trp  
 1 5 10 15

Asn Ala Lys Arg Ser Leu Phe Arg Thr His Leu Ile Gly Val Leu Ser  
 20 25 30

Leu Val Phe Leu Phe Ala Met Phe Leu Phe Phe Asn His His Asp Trp  
 35 40 45

Leu Pro Gly Arg Ala Gly Phe Lys Glu Asn Pro Val Thr Tyr Thr Phe  
 50 55 60

Arg Gly Phe Arg Ser Thr Lys Ser Glu Thr Asn His Ser Ser Leu Arg  
 65 70 75 80

Asn Ile Trp Lys Glu Thr Val Pro Gln Thr Leu Arg Pro Gln Thr Ala  
 85 90 95

Thr Asn Ser Asn Asn Thr Asp Leu Ser Pro Gln Gly Val Thr Gly Leu  
 Page 456

Glu Asn Thr Leu Ser Ala Asn Gly Ser Ile Tyr Asn Glu Lys Gly Thr  
 115 120 125  
 Gly His Pro Asn Ser Tyr His Phe Lys Tyr Ile Ile Asn Glu Pro Glu  
 130 135 140  
 Lys Cys Gln Glu Lys Ser Pro Phe Leu Ile Leu Leu Ile Ala Ala Glu  
 145 150 155 160  
 Pro Gly Gln Ile Glu Ala Arg Arg Ala Ile Arg Gln Thr Trp Gly Asn  
 165 170 175  
 Glu Ser Leu Ala Pro Gly Ile Gln Ile Thr Arg Ile Phe Leu Leu Gly  
 180 185 190  
 Leu Ser Ile Lys Leu Asn Gly Tyr Leu Gln Arg Ala Ile Leu Glu Glu  
 195 200 205  
 Ser Arg Gln Tyr His Asp Ile Ile Gln Gln Glu Tyr Leu Asp Thr Tyr  
 210 215 220  
 Tyr Asn Leu Thr Ile Lys Thr Leu Met Gly Met Asn Trp Val Ala Thr  
 225 230 235 240  
 Tyr Cys Pro His Ile Pro Tyr Val Met Lys Thr Asp Ser Asp Met Phe  
 245 250 255  
 Val Asn Thr Glu Tyr Leu Ile Asn Lys Leu Leu Lys Pro Asp Leu Pro  
 260 265 270  
 Pro Arg His Asn Tyr Phe Thr Gly Tyr Leu Met Arg Gly Tyr Ala Pro  
 275 280 285  
 Asn Arg Asn Lys Asp Ser Lys Trp Tyr Met Pro Pro Asp Leu Tyr Pro  
 290 295 300  
 Ser Glu Arg Tyr Pro Val Phe Cys Ser Gly Thr Gly Tyr Val Phe Ser  
 305 310 315 320  
 Gly Asp Leu Ala Glu Lys Ile Phe Lys Val Ser Leu Gly Ile Arg Arg  
 325 330 335  
 Leu His Leu Glu Asp Val Tyr Val Gly Ile Cys Leu Ala Lys Leu Arg  
 340 345 350

Ile Asp Pro Val Pro Pro Pro Asn Glu Phe Val Phe Asn His Trp Arg  
 355 360 365

Val Ser Tyr Ser Ser Cys Lys Tyr Ser His Leu Ile Thr Ser His Gln  
 370 375 380

Phe Gln Pro Ser Glu Leu Ile Lys Tyr Trp Asn His Leu Gln Gln Asn  
 385 390 395 400

Lys His Asn Ala Cys Ala Asn Ala Ala Lys Glu Lys Ala Gly Arg Tyr  
 405 410 415

Arg His Arg Lys Leu His  
 420

<210> 525

<211> 201

<212> PRT

<213> Mus musculus

<400> 525

Met Glu Trp Val Trp Ala Leu Val Leu Leu Ala Ala Leu Gly Gly Gly  
 1 5 10 15

Ser Ala Glu Arg Asp Cys Arg Val Ser Ser Phe Arg Val Lys Glu Asn  
 20 25 30

Phe Asp Lys Ala Arg Phe Ser Gly Leu Trp Tyr Ala Ile Ala Lys Lys  
 35 40 45

Asp Pro Glu Gly Leu Phe Leu Gln Asp Asn Ile Ile Ala Glu Phe Ser  
 50 55 60

Val Asp Glu Lys Gly His Met Ser Ala Thr Ala Lys Gly Arg Val Arg  
 65 70 75 80

Leu Leu Ser Asn Trp Glu Val Cys Ala Asp Met Val Gly Thr Phe Thr  
 85 90 95

Asp Thr Glu Asp Pro Ala Lys Phe Lys Met Lys Tyr Trp Gly Val Ala  
 100 105 110

Ser Phe Leu Gln Arg Gly Asn Asp Asp His Trp Ile Ile Asp Thr Asp  
 115 120 125

Tyr Asp Thr Phe Ala Leu Gln Tyr Ser Cys Arg Leu Gln Asn Leu Asp  
 130 135 140

Gly Thr Cys Ala Asp Ser Tyr Ser Phe Val Phe Ser Arg Asp Pro Asn  
 145 150 155 160

Gly Leu Ser Pro Glu Thr Arg Arg Leu Val Arg Gln Arg Gln Glu Glu  
 165 170 175

Leu Cys Leu Glu Arg Gln Tyr Arg Trp Ile Glu His Asn Gly Tyr Cys  
 180 185 190

Gln Ser Arg Pro Ser Arg Asn Ser Leu  
 195 200

<210> 526

<211> 199

<212> PRT

<213> Homo sapiens

<400> 526

Met Lys Trp Val Trp Ala Leu Leu Leu Leu Ala Ala Trp Ala Ala Ala  
 1 5 10 15

Glu Arg Asp Cys Arg Val Ser Ser Phe Arg Val Lys Glu Asn Phe Asp  
 20 25 30

Lys Ala Arg Phe Ser Gly Thr Trp Tyr Ala Met Ala Lys Lys Asp Pro  
 35 40 45

Glu Gly Leu Phe Leu Gln Asp Asn Ile Val Ala Glu Phe Ser Val Asp  
 50 55 60

Glu Thr Gly Gln Met Ser Ala Thr Ala Lys Gly Arg Val Arg Leu Leu  
 65 70 75 80

Asn Asn Trp Asp Val Cys Ala Asp Met Val Gly Thr Phe Thr Asp Thr  
 85 90 95

Glu Asp Pro Ala Lys Phe Lys Met Lys Tyr Trp Gly Val Ala Ser Phe  
 100 105 110

Leu Gln Lys Gly Asn Asp Asp His Trp Ile Val Asp Thr Asp Tyr Asp  
 115 120 125

Thr Tyr Ala Val Gln Tyr Ser Cys Arg Leu Leu Asn Leu Asp Gly Thr  
 130 135 140

Cys Ala Asp Ser Tyr Ser Phe Val Phe Ser Arg Asp Pro Asn Gly Leu  
 145 150 155 160

Pro Pro Glu Ala Gln Lys Ile Val Arg Gln Arg Gln Glu Glu Leu Cys  
 165 170 175

Leu Ala Arg Gln Tyr Arg Leu Ile Val His Asn Gly Tyr Cys Asp Gly  
 180 185 190

Arg Ser Glu Arg Asn Leu Leu  
 195

<210> 527

<211> 741

<212> PRT

<213> Mus musculus

<400> 527

Met Ile His Met Leu Asn Ala Ala Ala Tyr Arg Val Lys Trp Thr Arg  
 1 5 10 15

Ser Gly Ala Ala Lys Arg Ala Ala Cys Leu Val Ala Ala Ala Tyr Ala  
 20 25 30

Leu Lys Thr Leu Tyr Pro Ile Ile Gly Lys Arg Leu Lys Gln Pro Gly  
 35 40 45

His Arg Lys Ala Lys Ala Glu Ala Tyr Ser Pro Ala Glu Asn Arg Glu  
 50 55 60

Ile Leu His Cys Thr Glu Ile Ile Cys Lys Lys Pro Ala Pro Gly Leu  
 65 70 75 80

Asn Ala Ala Phe Phe Lys Gln Leu Leu Glu Leu Arg Lys Ile Leu Phe  
 85 90 95

Pro Lys Leu Val Thr Thr Glu Thr Gly Trp Leu Cys Leu His Ser Val  
 100 105 110

Ala Leu Ile Ser Arg Thr Phe Leu Ser Ile Tyr Val Ala Gly Leu Asp  
 Page 460



115

120

125

Gly Lys Ile Val Lys Ser Ile Val Glu Lys Lys Pro Arg Thr Phe Ile  
 130 135 140

Ile Lys Leu Ile Lys Trp Leu Met Ile Ala Ile Pro Ala Thr Phe Val  
 145 150 155 160

Asn Ser Ala Ile Arg Tyr Leu Glu Cys Lys Leu Ala Leu Ala Phe Arg  
 165 170 175

Thr Arg Leu Val Asp His Ala Tyr Glu Thr Tyr Phe Ala Asn Gln Thr  
 180 185 190

Tyr Tyr Lys Val Ile Asn Met Asp Gly Arg Leu Ala Asn Pro Asp Gln  
 195 200 205

Ser Leu Thr Glu Asp Ile Met Met Phe Ser Gln Ser Val Ala His Leu  
 210 215 220

Tyr Ser Asn Leu Thr Lys Pro Ile Leu Asp Val Ile Leu Thr Ser Tyr  
 225 230 235 240

Thr Leu Ile Arg Thr Ala Thr Ser Arg Gly Ala Ser Pro Ile Gly Pro  
 245 250 255

Thr Leu Leu Ala Gly Leu Val Val Tyr Ala Thr Ala Lys Val Leu Lys  
 260 265 270

Ala Cys Ser Pro Lys Phe Gly Ser Leu Val Ala Glu Glu Ala His Arg  
 275 280 285

Lys Gly Tyr Leu Arg Tyr Val His Ser Arg Ile Ile Ala Asn Val Glu  
 290 295 300

Glu Ile Ala Phe Tyr Arg Gly His Lys Val Glu Met Lys Gln Leu Gln  
 305 310 315 320

Lys Cys Tyr Lys Ala Leu Ala Tyr Gln Met Asn Leu Ile Leu Ser Lys  
 325 330 335

Arg Leu Trp Tyr Ile Met Ile Glu Gln Phe Leu Met Lys Tyr Val Trp  
 340 345 350

Ser Ser Cys Gly Leu Ile Met Val Ala Ile Pro Ile Ile Thr Ala Thr  
 355 360 365

Gly Phe Ala Asp Gly Asp Leu Glu Asp Gly Pro Lys Gln Ala Met Val  
 370 375 380  
 Ser Asp Arg Thr Glu Ala Phe Thr Thr Ala Arg Asn Leu Leu Ala Ser  
 385 390 395 400  
 Gly Ala Asp Ala Ile Glu Arg Ile Met Ser Ser Tyr Lys Glu Ile Thr  
 405 410 415  
 Glu Leu Ala Gly Tyr Thr Ala Arg Val Tyr Asn Met Phe Trp Val Phe  
 420 425 430  
 Asp Glu Val Lys Arg Gly Ile Tyr Lys Arg Thr Val Thr Gln Glu Pro  
 435 440 445  
 Glu Asn His Ser Lys Arg Gly Gly Asn Leu Glu Leu Pro Leu Ser Asp  
 450 455 460  
 Thr Leu Ala Ile Lys Gly Thr Val Ile Asp Val Asp His Gly Ile Ile  
 465 470 475 480  
 Cys Glu Asn Val Pro Ile Ile Thr Pro Ala Gly Glu Val Val Ala Ser  
 485 490 495  
 Arg Leu Asn Phe Lys Val Glu Glu Gly Met His Leu Leu Ile Thr Gly  
 500 505 510  
 Pro Asn Gly Cys Gly Lys Ser Ser Leu Phe Arg Ile Leu Ser Gly Leu  
 515 520 525  
 Trp Pro Val Tyr Glu Gly Val Leu Tyr Lys Pro Pro Pro Gln His Met  
 530 535 540  
 Phe Tyr Ile Pro Gln Arg Pro Tyr Met Ser Leu Gly Ser Leu Arg Asp  
 545 550 555 560  
 Gln Val Ile Tyr Pro Asp Ser Ala Asp Asp Met Arg Glu Lys Gly Tyr  
 565 570 575  
 Thr Asp Gln Asp Leu Glu Arg Ile Leu His Ser Val His Leu Tyr His  
 580 585 590  
 Ile Val Gln Arg Glu Gly Gly Trp Asp Ala Val Met Asp Trp Lys Asp  
 595 600 605  
 Val Leu Ser Gly Gly Glu Lys Gln Arg Met Gly Met Ala Arg Met Phe  
 610 615 620

69014-PRO2.ST25.txt

Tyr His Lys Pro Lys Tyr Ala Leu Leu Asp Glu Cys Thr Ser Ala Val  
625 630 635 640

Ser Ile Asp Val Glu Gly Lys Ile Phe Gln Ala Ala Ile Gly Ala Gly  
645 650 655

Ile Ser Leu Leu Ser Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His  
660 665 670

Thr His Leu Leu Gln Phe Asp Gly Glu Gly Gly Trp Arg Phe Glu Gln  
675 680 685

Leu Asp Thr Ala Ile Arg Leu Thr Leu Ser Glu Glu Lys Gln Lys Leu  
690 695 700

Glu Ser Gln Leu Ala Gly Ile Pro Lys Met Gln Gln Arg Leu Asn Glu  
705 710 715 720

Leu Cys Lys Ile Leu Gly Glu Asp Ser Val Leu Lys Thr Ile Gln Thr  
725 730 735

Pro Glu Lys Thr Ser  
740

<210> 528

<211> 740

<212> PRT

<213> Homo sapiens

<400> 528

Met Thr His Met Leu Asn Ala Ala Ala Asp Arg Val Lys Trp Thr Arg  
1 5 10 15

Ser Ser Ala Ala Lys Arg Ala Ala Cys Leu Val Ala Ala Ala Tyr Ala  
20 25 30

Leu Lys Thr Leu Tyr Pro Ile Ile Gly Lys Arg Leu Lys Gln Ser Gly  
35 40 45

His Gly Lys Lys Lys Ala Ala Ala Tyr Pro Ala Ala Glu Asn Thr Glu  
50 55 60

Ile Leu His Cys Thr Glu Thr Ile Cys Glu Lys Pro Ser Pro Gly Val  
65 70 75 80

Asn Ala Asp Phe Phe Lys Gln Leu Leu Glu Leu Arg Lys Ile Leu Phe  
 85 90 95  
 Pro Lys Leu Val Thr Thr Glu Thr Gly Trp Leu Cys Leu His Ser Val  
 100 105 110  
 Ala Leu Ile Ser Arg Thr Phe Leu Ser Ile Tyr Val Ala Gly Leu Asp  
 115 120 125  
 Gly Lys Ile Val Lys Ser Ile Val Glu Lys Lys Pro Arg Thr Phe Ile  
 130 135 140  
 Ile Lys Leu Ile Lys Trp Leu Met Ile Ala Ile Pro Ala Thr Phe Val  
 145 150 155 160  
 Asn Ser Ala Ile Arg Tyr Leu Glu Cys Lys Leu Ala Leu Ala Phe Arg  
 165 170 175  
 Thr Arg Leu Val Asp His Ala Tyr Glu Thr Tyr Phe Thr Asn Gln Thr  
 180 185 190  
 Tyr Tyr Lys Val Ile Asn Met Asp Gly Arg Leu Ala Asn Pro Asp Gln  
 195 200 205  
 Ser Leu Thr Glu Asp Ile Met Met Phe Ser Gln Ser Val Ala His Leu  
 210 215 220  
 Tyr Ser Asn Leu Thr Lys Pro Ile Leu Asp Val Met Leu Thr Ser Tyr  
 225 230 235 240  
 Thr Leu Ile Gln Thr Ala Thr Ser Arg Gly Ala Ser Pro Ile Gly Pro  
 245 250 255  
 Thr Leu Leu Ala Gly Leu Val Val Tyr Ala Thr Ala Lys Val Leu Lys  
 260 265 270  
 Ala Cys Ser Pro Lys Phe Gly Lys Leu Val Ala Glu Glu Ala His Arg  
 275 280 285  
 Lys Gly Tyr Leu Arg Tyr Val His Ser Arg Ile Ile Ala Asn Val Glu  
 290 295 300  
 Glu Ile Ala Phe Tyr Arg Gly His Lys Val Glu Met Lys Gln Leu Gln  
 305 310 315 320  
 Lys Ser Tyr Lys Ala Leu Ala Asp Gln Met Asn Leu Ile Leu Ser Lys  
 Page 464

Arg Leu Trp Tyr Ile Met Ile Glu Gln Phe Leu Met Lys Tyr Val Trp  
 340 345 350  
 Ser Ser Ser Gly Leu Ile Met Val Ala Ile Pro Ile Ile Thr Ala Thr  
 355 360 365  
 Gly Phe Ala Asp Gly Glu Asp Gly Gln Lys Gln Val Met Val Ser Glu  
 370 375 380  
 Arg Thr Glu Ala Phe Thr Thr Ala Arg Asn Leu Leu Ala Ser Gly Ala  
 385 390 395 400  
 Asp Ala Ile Glu Arg Ile Met Ser Ser Tyr Lys Glu Val Thr Glu Leu  
 405 410 415  
 Ala Gly Tyr Thr Ala Arg Val Tyr Asn Met Phe Trp Val Phe Asp Glu  
 420 425 430  
 Val Lys Arg Gly Ile Tyr Lys Arg Thr Ala Val Ile Gln Glu Ser Glu  
 435 440 445  
 Ser His Ser Lys Asn Gly Ala Lys Val Glu Leu Pro Leu Ser Asp Thr  
 450 455 460  
 Leu Ala Ile Lys Gly Lys Val Ile Asp Val Asp His Gly Ile Ile Cys  
 465 470 475 480  
 Glu Asn Val Pro Ile Ile Thr Pro Ala Gly Glu Val Val Ala Ser Arg  
 485 490 495  
 Leu Asn Phe Lys Val Glu Glu Gly Met His Leu Leu Ile Thr Gly Pro  
 500 505 510  
 Asn Gly Cys Gly Lys Ser Ser Leu Phe Arg Ile Leu Ser Gly Leu Trp  
 515 520 525  
 Pro Val Tyr Glu Gly Val Leu Tyr Lys Pro Pro Pro Gln His Met Phe  
 530 535 540  
 Tyr Ile Pro Gln Arg Pro Tyr Met Ser Leu Gly Ser Leu Arg Asp Gln  
 545 550 555 560  
 Val Ile Tyr Pro Asp Ser Val Asp Asp Met His Asp Lys Gly Tyr Thr  
 565 570 575

Asp Gln Asp Leu Glu Arg Ile Leu His Asn Val His Leu Tyr His Ile  
580 585 590

Val Gln Arg Glu Gly Gly Trp Asp Ala Val Met Asp Trp Lys Asp Val  
595 600 605

Leu Ser Gly Gly Glu Lys Gln Arg Met Gly Met Ala Arg Met Phe Tyr  
610 615 620

His Lys Pro Lys Tyr Ala Leu Leu Asp Glu Cys Thr Ser Ala Val Ser  
625 630 635 640

Ile Asp Val Glu Gly Lys Ile Phe Gln Ala Ala Lys Gly Ala Gly Ile  
645 650 655

Ser Leu Leu Ser Ile Thr His Arg Pro Ser Leu Trp Lys Tyr His Thr  
660 665 670

His Leu Leu Gln Phe Asp Gly Glu Gly Gly Trp Arg Phe Glu Gln Leu  
675 680 685

Asp Thr Ala Ile Arg Leu Thr Leu Ser Glu Glu Lys Gln Lys Leu Glu  
690 695 700

Ser Gln Leu Ala Gly Ile Pro Lys Met Gln Gln Arg Leu Asn Glu Leu  
705 710 715 720

Cys Lys Ile Leu Gly Glu Asp Ser Val Leu Lys Thr Ile Lys Asn Glu  
725 730 735

Asp Glu Thr Ser  
740

<210> 529

<211> 116

<212> PRT

<213> Mus musculus

<400> 529

Met Arg Asn Ser Lys Thr Ala Ile Ser Phe Phe Ile Leu Val Ala Val  
1 5 10 15

Leu Gly Ser Gln Ala Gly Leu Ile Gln Glu Met Glu Lys Glu Asp Arg  
20 25 30

Arg Tyr Asn Pro Pro Ile Ile His Gln Gly Phe Gln Asp Thr Ser Ser  
 35 40 45

Asp Cys Cys Phe Ser Tyr Ala Thr Gln Ile Pro Cys Lys Arg Phe Ile  
 50 55 60

Tyr Tyr Phe Pro Thr Ser Gly Gly Cys Ile Lys Pro Gly Ile Ile Phe  
 65 70 75 80

Ile Ser Arg Arg Gly Thr Gln Val Cys Ala Asp Pro Ser Asp Arg Arg  
 85 90 95

Val Gln Arg Cys Leu Ser Thr Leu Lys Gln Gly Pro Arg Ser Gly Asn  
 100 105 110

Lys Val Ile Ala  
 115

<210> 530

<211> 718

<212> PRT

<213> Mus musculus

<400> 530

Met Lys Leu Leu Leu Ala Leu Ala Gly Leu Leu Ala Pro Leu Ala Met  
 1 5 10 15

Leu Gln Thr Ser Asn Gly Ala Thr Pro Ala Leu Leu Gly Glu Val Glu  
 20 25 30

Asn Ser Val Val Leu Ser Cys Met Glu Glu Ala Lys Gln Leu Val Asp  
 35 40 45

Arg Ala Tyr Lys Glu Arg Arg Glu Ser Ile Lys Arg Thr Leu Gln Ser  
 50 55 60

Gly Ser Ala Ser Pro Thr Glu Leu Leu Phe Tyr Phe Lys Gln Pro Val  
 65 70 75 80

Ala Gly Thr Arg Thr Ala Val Arg Ala Ala Asp Tyr Leu His Val Ala  
 85 90 95

Leu Asp Leu Leu Lys Arg Lys Leu Gln Pro Leu Trp Pro Arg Pro Phe  
 100 105 110

Asn Val Thr Asp Val Leu Thr Pro Ala Gln Leu Asn Leu Leu Ser Val  
 115 120 125  
 Ser Ser Gly Cys Ala Tyr Gln Asp Val Gly Val Thr Cys Pro Pro Asn  
 130 135 140  
 Asp Lys Tyr Arg Thr Ile Thr Gly His Cys Asn Asn Arg Arg Ser Pro  
 145 150 155 160  
 Thr Leu Gly Ala Ser Asn Arg Ala Phe Val Arg Trp Leu Pro Ala Glu  
 165 170 175  
 Tyr Glu Asp Gly Val Ser Met Pro Phe Gly Trp Thr Pro Gly Val Asn  
 180 185 190  
 Arg Asn Gly Phe Lys Val Pro Leu Ala Arg Gln Val Ser Asn Ala Ile  
 195 200 205  
 Val Arg Phe Pro Asn Asp Gln Leu Thr Lys Asp Gln Glu Arg Ala Leu  
 210 215 220  
 Met Phe Met Gln Trp Gly Gln Phe Leu Asp His Asp Ile Thr Leu Thr  
 225 230 235 240  
 Pro Glu Pro Ala Thr Arg Phe Ser Phe Phe Thr Gly Leu Asn Cys Glu  
 245 250 255  
 Thr Ser Cys Leu Gln Gln Pro Pro Cys Phe Pro Leu Lys Ile Pro Pro  
 260 265 270  
 Asn Asp Pro Arg Ile Lys Asn Gln Lys Asp Cys Ile Pro Phe Phe Arg  
 275 280 285  
 Ser Cys Pro Ala Cys Thr Arg Asn Asn Ile Thr Ile Arg Asn Gln Ile  
 290 295 300  
 Asn Ala Leu Thr Ser Phe Val Asp Ala Ser Gly Val Tyr Gly Ser Glu  
 305 310 315 320  
 Asp Pro Leu Ala Arg Lys Leu Arg Asn Leu Thr Asn Gln Leu Gly Leu  
 325 330 335  
 Leu Ala Val Asn Thr Arg Phe Gln Asp Asn Gly Arg Ala Leu Met Pro  
 340 345 350  
 Phe Asp Ser Leu His Asp Asp Pro Cys Leu Leu Thr Asn Arg Ser Ala  
 Page 468



355

360

365

Arg Ile Pro Cys Phe Leu Ala Gly Asp Met Arg Ser Ser Glu Met Pro  
 370 375 380

Glu Leu Thr Ser Met His Thr Leu Phe Val Arg Glu His Asn Arg Leu  
 385 390 395 400

Ala Thr Gln Leu Lys Arg Leu Asn Pro Arg Trp Asn Gly Glu Lys Leu  
 405 410 415

Tyr Gln Glu Ala Arg Lys Ile Val Gly Ala Met Val Gln Ile Ile Thr  
 420 425 430

Tyr Arg Asp Tyr Leu Pro Leu Val Leu Gly Pro Ala Ala Met Lys Lys  
 435 440 445

Tyr Leu Pro Gln Tyr Arg Ser Tyr Asn Asp Ser Val Asp Pro Arg Ile  
 450 455 460

Ala Asn Val Phe Thr Asn Ala Phe Arg Tyr Gly His Thr Leu Ile Gln  
 465 470 475 480

Pro Phe Met Phe Arg Leu Asn Asn Gln Tyr Arg Pro Thr Ala Ala Asn  
 485 490 495

Pro Arg Val Pro Leu Ser Lys Val Phe Phe Ala Ser Trp Arg Val Val  
 500 505 510

Leu Glu Gly Gly Ile Asp Pro Ile Leu Arg Gly Leu Met Ala Thr Pro  
 515 520 525

Ala Lys Leu Asn Arg Gln Asn Gln Ile Val Val Asp Glu Ile Arg Glu  
 530 535 540

Arg Leu Phe Glu Gln Val Met Arg Ile Gly Leu Asp Leu Pro Ala Leu  
 545 550 555 560

Asn Met Gln Arg Ser Arg Asp His Gly Leu Pro Gly Tyr Asn Ala Trp  
 565 570 575

Arg Arg Phe Cys Gly Leu Pro Gln Pro Ser Thr Val Gly Glu Leu Gly  
 580 585 590

Thr Val Leu Lys Asn Leu Glu Leu Ala Arg Lys Leu Met Ala Gln Tyr  
 595 600 605

Gly Thr Pro Asn Asn Ile Asp Ile Trp Met Gly Gly Val Ser Glu Pro  
 610 615 620

Leu Glu Pro Asn Gly Arg Val Gly Gln Leu Leu Ala Cys Leu Ile Gly  
 625 630 635 640

Thr Gln Phe Arg Lys Leu Arg Asp Gly Asp Arg Phe Trp Trp Glu Asn  
 645 650 655

Pro Gly Val Phe Ser Lys Gln Gln Arg Gln Ala Leu Ala Ser Ile Ser  
 660 665 670

Leu Pro Arg Leu Ile Cys Asp Asn Thr Gly Ile Thr Thr Val Ser Lys  
 675 680 685

Asn Asn Ile Phe Met Ser Asn Thr Tyr Pro Arg Asp Phe Val Ser Cys  
 690 695 700

Asn Thr Leu Pro Lys Leu Asn Leu Thr Ser Trp Lys Glu Thr  
 705 710 715

<210> 531

<211> 745

<212> PRT

<213> Homo sapiens

<400> 531

Met Gly Val Pro Phe Phe Ser Ser Leu Arg Cys Met Val Asp Leu Gly  
 1 5 10 15

Pro Cys Trp Ala Gly Gly Leu Thr Ala Glu Met Lys Leu Leu Ala  
 20 25 30

Leu Ala Gly Leu Leu Ala Ile Leu Ala Thr Pro Gln Pro Ser Glu Gly  
 35 40 45

Ala Ala Pro Ala Val Leu Gly Glu Val Asp Thr Ser Leu Val Leu Ser  
 50 55 60

Ser Met Glu Glu Ala Lys Gln Leu Val Asp Lys Ala Tyr Lys Glu Arg  
 65 70 75 80

Arg Glu Ser Ile Lys Gln Arg Leu Arg Ser Gly Ser Ala Ser Pro Met  
 85 90 95

69014-PRO2.ST25.txt

Glu Leu Leu Ser Tyr Phe Lys Gln Pro Val Ala Ala Thr Arg Thr Ala  
 100 105 110  
 Val Arg Ala Ala Asp Tyr Leu His Val Ala Leu Asp Leu Leu Glu Arg  
 115 120 125  
 Lys Leu Arg Ser Leu Trp Arg Arg Pro Phe Asn Val Thr Asp Val Leu  
 130 135 140  
 Thr Pro Ala Gln Leu Asn Val Leu Ser Lys Ser Ser Gly Cys Ala Tyr  
 145 150 155 160  
 Gln Asp Val Gly Val Thr Cys Pro Glu Gln Asp Lys Tyr Arg Thr Ile  
 165 170 175  
 Thr Gly Met Cys Asn Asn Arg Arg Ser Pro Thr Leu Gly Ala Ser Asn  
 180 185 190  
 Arg Ala Phe Val Arg Trp Leu Pro Ala Glu Tyr Glu Asp Gly Phe Ser  
 195 200 205  
 Leu Pro Tyr Gly Trp Thr Pro Gly Val Lys Arg Asn Gly Phe Pro Val  
 210 215 220  
 Ala Leu Ala Arg Ala Val Ser Asn Glu Ile Val Arg Phe Pro Thr Asp  
 225 230 235 240  
 Gln Leu Thr Pro Asp Gln Glu Arg Ser Leu Met Phe Met Gln Trp Gly  
 245 250 255  
 Gln Leu Leu Asp His Asp Leu Asp Phe Thr Pro Glu Pro Ala Ala Arg  
 260 265 270  
 Ala Ser Phe Val Thr Gly Val Asn Cys Glu Thr Ser Cys Val Gln Gln  
 275 280 285  
 Pro Pro Cys Phe Pro Leu Lys Ile Pro Pro Asn Asp Pro Arg Ile Lys  
 290 295 300  
 Asn Gln Ala Asp Cys Ile Pro Phe Phe Arg Ser Cys Pro Ala Cys Pro  
 305 310 315 320  
 Gly Ser Asn Ile Thr Ile Arg Asn Gln Ile Asn Ala Leu Thr Ser Phe  
 325 330 335  
 Val Asp Ala Ser Met Val Tyr Gly Ser Glu Glu Pro Leu Ala Arg Asn  
 340 345 350

Leu Arg Asn Met Ser Asn Gln Leu Gly Leu Leu Ala Val Asn Gln Arg  
 355 360 365  
 Phe Gln Asp Asn Gly Arg Ala Leu Leu Pro Phe Asp Asn Leu His Asp  
 370 375 380  
 Asp Pro Cys Leu Leu Thr Asn Arg Ser Ala Arg Ile Pro Cys Phe Leu  
 385 390 395 400  
 Ala Gly Asp Thr Arg Ser Ser Glu Met Pro Glu Leu Thr Ser Met His  
 405 410 415  
 Thr Leu Leu Leu Arg Glu His Asn Arg Leu Ala Thr Glu Leu Lys Ser  
 420 425 430  
 Leu Asn Pro Arg Trp Asp Gly Glu Arg Leu Tyr Gln Glu Ala Arg Lys  
 435 440 445  
 Ile Val Gly Ala Met Val Gln Ile Ile Thr Tyr Arg Asp Tyr Leu Pro  
 450 455 460  
 Leu Val Leu Gly Pro Thr Ala Met Arg Lys Tyr Leu Pro Thr Tyr Arg  
 465 470 475 480  
 Ser Tyr Asn Asp Ser Val Asp Pro Arg Ile Ala Asn Val Phe Thr Asn  
 485 490 495  
 Ala Phe Arg Tyr Gly His Thr Leu Ile Gln Pro Phe Met Phe Arg Leu  
 500 505 510  
 Asp Asn Arg Tyr Gln Pro Met Glu Pro Asn Pro Arg Val Pro Leu Ser  
 515 520 525  
 Arg Val Phe Phe Ala Ser Trp Arg Val Val Leu Glu Gly Gly Ile Asp  
 530 535 540  
 Pro Ile Leu Arg Gly Leu Met Ala Thr Pro Ala Lys Leu Asn Arg Gln  
 545 550 555 560  
 Asn Gln Ile Ala Val Asp Glu Ile Arg Glu Arg Leu Phe Glu Gln Val  
 565 570 575  
 Met Arg Ile Gly Leu Asp Leu Pro Ala Leu Asn Met Gln Arg Ser Arg  
 580 585 590  
 Asp His Gly Leu Pro Gly Tyr Asn Ala Trp Arg Arg Phe Cys Gly Leu  
 Page 472

595

600

605

Pro Gln Pro Glu Thr Val Gly Gln Leu Gly Thr Val Leu Arg Asn Leu  
 610 615 620

Lys Leu Ala Arg Lys Leu Met Glu Gln Tyr Gly Thr Pro Asn Asn Ile  
 625 630 635 640

Asp Ile Trp Met Gly Gly Val Ser Glu Pro Leu Lys Arg Lys Gly Arg  
 645 650 655

Val Gly Pro Leu Leu Ala Cys Ile Ile Gly Thr Gln Phe Arg Lys Leu  
 660 665 670

Arg Asp Gly Asp Arg Phe Trp Trp Glu Asn Glu Gly Val Phe Ser Met  
 675 680 685

Gln Gln Arg Gln Ala Leu Ala Gln Ile Ser Leu Pro Arg Ile Ile Cys  
 690 695 700

Asp Asn Thr Gly Ile Thr Thr Val Ser Lys Asn Asn Ile Phe Met Ser  
 705 710 715 720

Asn Ser Tyr Pro Arg Asp Phe Val Asn Cys Ser Thr Leu Pro Ala Leu  
 725 730 735

Asn Leu Ala Ser Trp Arg Glu Ala Ser  
 740 745

<210> 532

<211> 461

<212> PRT

<213> Mus musculus

<400> 532

Met Ser Arg Gln Val Val Arg Ser Ser Lys Phe Arg His Val Phe Gly  
 1 5 10 15

Gln Pro Ala Lys Ala Asp Gln Cys Tyr Glu Asp Val Arg Val Ser Gln  
 20 25 30

Thr Thr Trp Asp Ser Gly Phe Cys Ala Val Asn Pro Lys Phe Met Ala  
 35 40 45

Leu Ile Cys Glu Ala Ser Gly Gly Gly Ala Phe Leu Val Leu Pro Leu  
 50 55 60  
 Gly Lys Thr Gly Arg Val Asp Lys Asn Val Pro Leu Val Cys Gly His  
 65 70 75 80  
 Thr Ala Pro Val Leu Asp Ile Ala Trp Cys Pro His Asn Asp Asn Val  
 85 90 95  
 Ile Ala Ser Gly Ser Glu Asp Cys Thr Val Met Val Trp Glu Ile Pro  
 100 105 110  
 Asp Gly Gly Leu Val Leu Pro Leu Arg Glu Pro Val Ile Thr Leu Glu  
 115 120 125  
 Gly His Thr Lys Arg Val Gly Ile Val Ala Trp His Pro Thr Ala Gln  
 130 135 140  
 Asn Val Leu Leu Ser Ala Gly Cys Asp Asn Val Ile Leu Val Trp Asp  
 145 150 155 160  
 Val Gly Thr Gly Ala Ala Val Leu Thr Leu Gly Pro Asp Val His Pro  
 165 170 175  
 Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly Ala Leu Ile Cys  
 180 185 190  
 Thr Ser Cys Arg Asp Lys Arg Val Arg Val Ile Glu Pro Arg Lys Gly  
 195 200 205  
 Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly Thr Arg Pro Val  
 210 215 220  
 His Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr Thr Gly Phe Ser  
 225 230 235 240  
 Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr Lys His Leu Glu  
 245 250 255  
 Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly Val Leu Leu  
 260 265 270  
 Pro Phe Phe Asp Pro Asp Thr Asn Ile Val Tyr Leu Cys Gly Lys Gly  
 275 280 285  
 Asp Ser Ser Ile Arg Tyr Phe Glu Ile Thr Ser Glu Ala Pro Phe Leu  
 290 295 300

69014-PRO2.ST25.txt

His Tyr Leu Ser Met Phe Ser Ser Lys Glu Ser Gln Arg Gly Met Gly  
305 310 315 320

Tyr Met Pro Lys Arg Gly Leu Glu Val Asn Lys Cys Glu Ile Ala Arg  
325 330 335

Phe Tyr Lys Leu His Glu Arg Lys Cys Glu Pro Ile Ala Met Thr Val  
340 345 350

Pro Arg Lys Ser Asp Leu Phe Gln Glu Asp Leu Tyr Pro Pro Thr Ala  
355 360 365

Gly Pro Asp Pro Ala Leu Thr Ala Glu Glu Trp Leu Gly Gly Arg Asp  
370 375 380

Ala Gly Pro Leu Leu Ile Ser Leu Lys Asp Gly Tyr Val Pro Pro Lys  
385 390 395 400

Ser Arg Glu Leu Arg Val Asn Arg Gly Leu Asp Ser Ala Arg Arg Arg  
405 410 415

Ala Thr Pro Glu Pro Ser Gly Thr Pro Ser Ser Asp Thr Val Ser Arg  
420 425 430

Leu Glu Glu Asp Val Arg Asn Leu Asn Ala Ile Val Gln Lys Leu Gln  
435 440 445

Glu Arg Leu Asp Arg Leu Glu Glu Thr Val Gln Ala Lys  
450 455 460

<210> 533

<211> 461

<212> PRT

<213> Homo sapiens

<400> 533

Met Ser Arg Gln Val Val Arg Ser Ser Lys Phe Arg His Val Phe Gly  
1 5 10 15

Gln Pro Ala Lys Ala Asp Gln Cys Tyr Glu Asp Val Arg Val Ser Gln  
20 25 30

Thr Thr Trp Asp Ser Gly Phe Cys Ala Val Asn Pro Lys Phe Val Ala  
35 40 45

Leu Ile Cys Glu Ala Ser Gly Gly Gly Ala Phe Leu Val Leu Pro Leu  
 50 55 60  
 Gly Lys Thr Gly Arg Val Asp Lys Asn Ala Pro Thr Val Cys Gly His  
 65 70 75 80  
 Thr Ala Pro Val Leu Asp Ile Ala Trp Cys Pro His Asn Asp Asn Val  
 85 90 95  
 Ile Ala Ser Gly Ser Glu Asp Cys Thr Val Met Val Trp Glu Ile Pro  
 100 105 110  
 Asp Gly Gly Leu Met Leu Pro Leu Arg Glu Pro Val Val Thr Leu Glu  
 115 120 125  
 Gly His Thr Lys Arg Val Gly Ile Val Ala Trp His Thr Thr Ala Gln  
 130 135 140  
 Asn Val Leu Leu Ser Ala Gly Cys Asp Asn Val Ile Met Val Trp Asp  
 145 150 155 160  
 Val Gly Thr Gly Ala Ala Met Leu Thr Leu Gly Pro Glu Val His Pro  
 165 170 175  
 Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly Gly Leu Ile Cys  
 180 185 190  
 Thr Ser Cys Arg Asp Lys Arg Val Arg Ile Ile Glu Pro Arg Lys Gly  
 195 200 205  
 Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly Thr Arg Pro Val  
 210 215 220  
 Arg Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr Thr Gly Phe Ser  
 225 230 235 240  
 Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr Lys His Leu Glu  
 245 250 255  
 Glu Pro Leu Ser Leu Gln Glu Leu Asp Thr Ser Ser Gly Val Leu Leu  
 260 265 270  
 Pro Phe Phe Asp Pro Asp Thr Asn Ile Val Tyr Leu Cys Gly Lys Gly  
 275 280 285  
 Asp Ser Ser Ile Arg Tyr Phe Glu Ile Thr Ser Glu Ala Pro Phe Leu  
 Page 476



290

295

His Tyr Leu Ser Met Phe Ser Ser Lys Glu Ser Gln Arg Gly Met Gly  
305 310 315 320

Tyr Met Pro Lys Arg Gly Leu Glu Val Asn Lys Cys Glu Ile Ala Arg  
325 330 335

Phe Tyr Lys Leu His Glu Arg Arg Cys Glu Pro Ile Ala Met Thr Val  
340 345 350

Pro Arg Lys Ser Asp Leu Phe Gln Glu Asp Leu Tyr Pro Pro Thr Ala  
355 360 365

Gly Pro Asp Pro Ala Leu Thr Ala Glu Glu Trp Leu Gly Gly Arg Asp  
370 375 380

Ala Gly Pro Leu Leu Ile Ser Leu Lys Asp Gly Tyr Val Pro Pro Lys  
385 390 395 400

Ser Arg Glu Leu Arg Val Asn Arg Gly Leu Asp Thr Gly Arg Arg Arg  
405 410 415

Ala Ala Pro Glu Ala Ser Gly Thr Pro Ser Ser Asp Ala Val Ser Arg  
420 425 430

Leu Glu Glu Glu Met Arg Lys Leu Gln Ala Thr Val Gln Glu Leu Gln  
435 440 445

Lys Arg Leu Asp Arg Leu Glu Glu Thr Val Gln Ala Lys  
450 455 460

&lt;210&gt; 534

&lt;211&gt; 591

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 534

Met Phe Gly Ile Gln Glu Ser Ile Gln Arg Ser Gly Ser Ser Met Lys  
1 5 10 15

Glu Glu Pro Leu Gly Ser Gly Met Asn Ala Val Arg Thr Trp Met Gln  
20 25 30

Gly Ala Gly Val Leu Asp Ala Asn Thr Ala Ala Gln Ser Gly Val Gly  
 35 40 45  
 Leu Ala Arg Ala His Phe Glu Lys Gln Pro Pro Ser Asn Leu Arg Lys  
 50 55 60  
 Ser Asn Phe Phe His Phe Val Leu Ala Leu Tyr Asp Arg Gln Gly Gln  
 65 70 75 80  
 Pro Val Glu Ile Glu Arg Thr Ala Phe Val Gly Phe Val Glu Lys Glu  
 85 90 95  
 Lys Glu Ala Asn Ser Glu Lys Thr Asn Asn Gly Ile His Tyr Arg Leu  
 100 105 110  
 Gln Leu Leu Tyr Ser Asn Gly Ile Arg Thr Glu Gln Asp Phe Tyr Val  
 115 120 125  
 Arg Leu Ile Asp Ser Met Thr Lys Gln Ala Ile Val Tyr Glu Gly Gln  
 130 135 140  
 Asp Lys Asn Pro Glu Met Cys Arg Val Leu Leu Thr His Glu Ile Met  
 145 150 155 160  
 Cys Ser Arg Cys Cys Asp Lys Lys Ser Cys Gly Asn Arg Asn Glu Thr  
 165 170 175  
 Pro Ser Asp Pro Val Ile Ile Asp Arg Phe Phe Leu Lys Phe Phe Leu  
 180 185 190  
 Lys Cys Asn Gln Asn Cys Leu Lys Asn Ala Gly Asn Pro Arg Asp Met  
 195 200 205  
 Arg Arg Phe Gln Val Val Val Ser Thr Thr Val Asn Val Asp Gly His  
 210 215 220  
 Val Leu Ala Val Ser Asp Asn Met Phe Val His Asn Asn Ser Lys His  
 225 230 235 240  
 Gly Arg Arg Ala Arg Arg Leu Asp Pro Ser Glu Gly Thr Pro Ser Tyr  
 245 250 255  
 Leu Glu His Ala Thr Pro Cys Ile Lys Ala Ile Ser Pro Ser Glu Gly  
 260 265 270  
 Trp Thr Thr Gly Gly Ala Thr Val Ile Ile Ile Gly Asp Asn Phe Phe  
 275 280 285

Asp Gly Leu Gln Val Ile Phe Gly Thr Met Leu Val Trp Ser Glu Leu  
 290 295 300

Ile Thr Pro His Ala Ile Arg Val Gln Thr Pro Pro Arg His Ile Pro  
 305 310 315 320

Gly Val Val Glu Val Thr Leu Ser Tyr Lys Ser Lys Gln Phe Cys Lys  
 325 330 335

Gly Thr Pro Gly Arg Phe Ile Tyr Thr Ala Leu Asn Glu Pro Thr Ile  
 340 345 350

Asp Tyr Gly Phe Gln Arg Leu Gln Lys Val Ile Pro Arg His Pro Gly  
 355 360 365

Asp Pro Glu Arg Leu Pro Lys Glu Val Ile Leu Lys Arg Ala Ala Asp  
 370 375 380

Leu Val Glu Ala Leu Tyr Gly Met Pro His Asn Asn Gln Glu Ile Ile  
 385 390 395 400

Leu Lys Arg Ala Ala Asp Ile Ala Glu Ala Leu Tyr Ser Val Pro Arg  
 405 410 415

Asn His Asn Gln Leu Pro Ala Leu Ala Asn Thr Ser Val His Ala Gly  
 420 425 430

Met Met Gly Val Asn Ser Phe Ser Gly Gln Leu Ala Val Asn Val Ser  
 435 440 445

Glu Ala Ser Gln Ala Thr Asn Gln Gly Phe Thr Arg Asn Ser Ser Ser  
 450 455 460

Val Ser Pro His Gly Tyr Val Pro Ser Thr Thr Pro Gln Gln Thr Asn  
 465 470 475 480

Tyr Asn Ser Val Thr Thr Ser Met Asn Gly Tyr Gly Ser Ala Ala Met  
 485 490 495

Ser Asn Leu Gly Gly Ser Pro Thr Phe Leu Asn Gly Ser Ala Ala Asn  
 500 505 510

Ser Pro Tyr Ala Ile Val Pro Ser Ser Pro Thr Met Ala Ser Ser Thr  
 515 520 525

Ser Leu Pro Ser Asn Cys Ser Ser Ser Ser Gly Ile Phe Ser Phe Ser  
 530 535 540

Pro Ala Asn Met Val Ser Ala Val Lys Gln Lys Ser Ala Phe Ala Pro  
 545 550 555 560

Val Val Arg Pro Gln Thr Ser Pro Pro Pro Thr Cys Thr Ser Thr Asn  
 565 570 575

Gly Asn Ser Leu Gln Ala Ile Ser Gly Met Ile Val Pro Pro Met  
 580 585 590

<210> 535

<211> 384

<212> PRT

<213> Homo sapiens

<400> 535

Met Arg Arg Phe Gln Val Val Val Ser Thr Thr Val Asn Val Asp Gly  
 1 5 10 15

His Val Leu Ala Val Ser Asp Asn Met Phe Val His Asn Asn Ser Lys  
 20 25 30

His Gly Arg Arg Ala Arg Arg Leu Asp Pro Ser Glu Gly Thr Pro Ser  
 35 40 45

Tyr Leu Glu His Ala Thr Pro Cys Ile Lys Ala Ile Ser Pro Ser Glu  
 50 55 60

Gly Trp Thr Thr Gly Gly Ala Thr Val Ile Ile Ile Gly Asp Asn Phe  
 65 70 75 80

Phe Asp Gly Leu Gln Val Ile Phe Gly Thr Met Leu Val Trp Ser Glu  
 85 90 95

Leu Thr Gly Pro His Ala Ile Arg Val Gln Thr Pro Pro Arg His Ile  
 100 105 110

Pro Gly Val Val Glu Val Thr Leu Ser Tyr Lys Ser Lys Gln Phe Cys  
 115 120 125

Lys Gly Thr Pro Gly Arg Phe Ile Tyr Thr Ala Leu Asn Glu Pro Thr  
 130 135 140

Ile Asp Tyr Gly Phe Gln Arg Leu Gln Lys Val Ile Pro Arg His Pro  
 Page 480

145                      150                      155                      160  
 Gly Asp Pro Glu Arg Leu Pro Lys Glu Val Ile Leu Lys Arg Ala Ala  
                                  165                                   170                                   175  
 Asp Leu Val Glu Ala Leu Tyr Gly Met Pro His Asn Asn Gln Glu Ile  
                                  180                                   185                                   190  
 Ile Leu Lys Arg Ala Ala Asp Ile Ala Glu Ala Leu Tyr Ser Val Pro  
                                  195                                   200                                   205  
 Arg Asn His Asn Gln Leu Pro Ala Leu Ala Asn Thr Ser Val His Ala  
                                  210                                   215                                   220  
 Gly Met Met Gly Val Asn Ser Phe Ser Gly Gln Leu Ala Val Asn Val  
                                  225                                   230                                   235                                   240  
 Ser Glu Ala Ser Gln Ala Thr Asn Gln Gly Phe Thr Arg Asn Ser Ser  
                                  245                                   250                                   255  
 Ser Val Ser Pro His Gly Tyr Val Pro Ser Thr Thr Pro Gln Gln Thr  
                                  260                                   265                                   270  
 Asn Tyr Asn Ser Val Thr Thr Ser Met Asn Gly Tyr Gly Ser Ala Ala  
                                  275                                   280                                   285  
 Met Ser Asn Leu Gly Gly Ser Pro Thr Phe Leu Asn Gly Ser Ala Ala  
                                  290                                   295                                   300  
 Asn Ser Pro Tyr Ala Ile Val Pro Ser Ser Pro Thr Met Ala Ser Ser  
                                  305                                   310                                   315                                   320  
 Thr Ser Leu Pro Ser Asn Cys Ser Ser Ser Ser Gly Ile Phe Ser Phe  
                                  325                                   330                                   335  
 Ser Pro Ala Asn Met Val Ser Ala Val Lys Gln Lys Ser Ala Phe Ala  
                                  340                                   345                                   350  
 Pro Val Val Arg Pro Gln Thr Ser Pro Pro Pro Thr Cys Thr Ser Thr  
                                  355                                   360                                   365  
 Asn Gly Asn Ser Leu Gln Ala Ile Ser Gly Met Ile Val Pro Pro Met  
                                  370                                   375                                   380

&lt;210&gt; 536

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 536

Met Lys Ile Ser Ala Ala Ala Leu Thr Ile Ile Leu Thr Ala Ala Ala  
 1 5 10 15

Leu Cys Thr Pro Ala Pro Ala Ser Pro Tyr Gly Ser Asp Thr Thr Pro  
 20 25 30

Cys Cys Phe Ala Tyr Leu Ser Leu Ala Leu Pro Arg Ala His Val Lys  
 35 40 45

Glu Tyr Phe Tyr Thr Ser Ser Lys Cys Ser Asn Leu Ala Val Val Phe  
 50 55 60

Val Thr Arg Arg Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp  
 65 70 75 80

Val Gln Glu Tyr Ile Asn Tyr Leu Glu Met Ser  
 85 90

&lt;210&gt; 537

&lt;211&gt; 91

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala  
 1 5 10 15

Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro  
 20 25 30

Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys  
 35 40 45

Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe  
 50 55 60

Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp  
 65 70 75 80

Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser  
                   85                                  90

<210> 538

<211> 598

<212> PRT

<213> Mus musculus

<400> 538

Pro Arg Asp Met Ile Asp Asp Ala Phe Ala Arg Ala Phe Ala Val Trp  
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Gly Glu Val Ala Pro Leu Thr Phe Thr Arg Val Tyr Gly Pro Glu Ala  
                   20                                  25                                  30

Asp Ile Val Ile Gln Phe Gly Val Ala Glu His Gly Asp Gly Tyr Pro  
                   35                                  40                                  45

Phe Asp Gly Lys Asp Gly Leu Leu Ala His Ala Phe Pro Pro Gly Ala  
                   50                                  55                                  60

Gly Val Gln Gly Asp Ala His Phe Asp Asp Asp Glu Leu Trp Ser Leu  
   65                                  70                                  75                                  80

Gly Lys Gly Val Val Ile Pro Thr Tyr Tyr Gly Asn Ser Asn Gly Ala  
                                   85                                  90                                  95

Pro Cys His Phe Pro Phe Thr Phe Glu Gly Arg Ser Tyr Ser Ala Cys  
                   100                                  105                                  110

Thr Thr Asp Gly Arg Asn Asp Gly Thr Pro Trp Cys Ser Thr Thr Ala  
                   115                                  120                                  125

Asp Tyr Asp Lys Asp Gly Lys Phe Gly Phe Cys Pro Ser Glu Arg Leu  
                   130                                  135                                  140

Tyr Thr Glu His Gly Asn Gly Glu Gly Lys Pro Cys Val Phe Pro Phe  
   145                                  150                                  155                                  160

Ile Phe Glu Gly Arg Ser Tyr Ser Ala Cys Thr Thr Lys Gly Arg Ser  
                                   165                                  170                                  175

Asp Gly Tyr Arg Trp Cys Ala Thr Thr Ala Asn Tyr Asp Gln Asp Lys  
                   180                                  185                                  190

Leu Tyr Gly Phe Cys Pro Thr Arg Val Asp Ala Thr Val Val Gly Gly  
 195 200 205  
 Asn Ser Ala Gly Glu Leu Cys Val Phe Pro Phe Val Phe Leu Gly Lys  
 210 215 220  
 Gln Tyr Ser Ser Cys Thr Ser Asp Gly Arg Arg Asp Gly Arg Leu Trp  
 225 230 235 240  
 Cys Ala Thr Thr Ser Asn Phe Asp Thr Asp Lys Lys Trp Gly Phe Cys  
 245 250 255  
 Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala His Glu Phe Gly  
 260 265 270  
 His Ala Leu Gly Leu Asp His Ser Ser Val Pro Glu Ala Leu Met Tyr  
 275 280 285  
 Pro Leu Tyr Ser Tyr Leu Glu Gly Phe Pro Leu Asn Lys Asp Asp Ile  
 290 295 300  
 Asp Gly Ile Gln Tyr Leu Tyr Gly Arg Gly Ser Lys Pro Asp Pro Arg  
 305 310 315 320  
 Pro Pro Ala Thr Thr Thr Thr Glu Pro Gln Pro Thr Ala Pro Pro Thr  
 325 330 335  
 Met Cys Pro Thr Ile Pro Pro Thr Ala Tyr Pro Thr Val Gly Pro Thr  
 340 345 350  
 Val Gly Pro Thr Gly Ala Pro Ser Pro Gly Pro Thr Ser Ser Pro Ser  
 355 360 365  
 Pro Gly Pro Thr Gly Ala Pro Ser Pro Gly Pro Thr Ala Ala Pro Thr  
 370 375 380  
 Ala Gly Ser Ser Glu Ala Ser Thr Glu Ser Leu Ser Pro Ala Asp Asn  
 385 390 395 400  
 Pro Cys Asn Val Asp Val Phe Asp Ala Ile Ala Glu Ile Gln Gly Ala  
 405 410 415  
 Leu His Phe Phe Lys Asp Gly Trp Tyr Trp Lys Phe Leu Asn His Arg  
 420 425 430  
 Gly Ser Pro Leu Gln Gly Pro Phe Leu Thr Ala Arg Thr Trp Pro Ala  
 Page 484



435

440

445

Leu Pro Ala Thr Leu Asp Ser Ala Phe Glu Asp Pro Gln Thr Lys Arg  
 450 455 460

Val Phe Phe Phe Ser Gly Arg Gln Met Trp Val Tyr Thr Gly Lys Thr  
 465 470 475 480

Val Leu Gly Pro Arg Ser Leu Asp Lys Leu Gly Leu Gly Pro Glu Val  
 485 490 495

Thr His Val Ser Gly Leu Leu Pro Arg Arg Pro Gly Lys Ala Leu Leu  
 500 505 510

Phe Ser Lys Gly Arg Val Trp Arg Phe Asp Leu Lys Ser Gln Lys Val  
 515 520 525

Asp Pro Gln Ser Val Ile Arg Val Asp Lys Glu Phe Ser Gly Val Pro  
 530 535 540

Trp Asn Ser His Asp Ile Phe Gln Tyr Gln Asp Lys Ala Tyr Phe Cys  
 545 550 555 560

His Gly Lys Phe Phe Trp Arg Val Ser Phe Gln Asn Glu Val Asn Lys  
 565 570 575

Val Asp Pro Glu Val Asn Gln Val Asp Asp Val Gly Tyr Val Thr Tyr  
 580 585 590

Asp Leu Leu Gln Cys Pro  
 595

<210> 539

<211> 707

<212> PRT

<213> Homo sapiens

<400> 539

Met Ser Leu Trp Gln Pro Leu Val Leu Val Leu Leu Val Leu Gly Cys  
 1 5 10 15

Cys Phe Ala Ala Pro Arg Gln Arg Gln Ser Thr Leu Val Leu Phe Pro  
 20 25 30

Gly Asp Leu Arg Thr Asn Leu Thr Asp Arg Gln Leu Ala Glu Glu Tyr  
 35 40 45

Leu Tyr Arg Tyr Gly Tyr Thr Arg Val Ala Glu Met Arg Gly Glu Ser  
 50 55 60

Lys Ser Leu Gly Pro Ala Leu Leu Leu Leu Gln Lys Gln Leu Ser Leu  
 65 70 75 80

Pro Glu Thr Gly Glu Leu Asp Ser Ala Thr Leu Lys Ala Met Arg Thr  
 85 90 95

Pro Arg Cys Gly Val Pro Asp Leu Gly Arg Phe Gln Thr Phe Glu Gly  
 100 105 110

Asp Leu Lys Trp His His His Asn Ile Thr Tyr Trp Ile Gln Asn Tyr  
 115 120 125

Ser Glu Asp Leu Pro Arg Ala Val Ile Asp Asp Ala Phe Ala Arg Ala  
 130 135 140

Phe Ala Leu Trp Ser Ala Val Thr Pro Leu Thr Phe Thr Arg Val Tyr  
 145 150 155 160

Ser Arg Asp Ala Asp Ile Val Ile Gln Phe Gly Val Ala Glu His Gly  
 165 170 175

Asp Gly Tyr Pro Phe Asp Gly Lys Asp Gly Leu Leu Ala His Ala Phe  
 180 185 190

Pro Pro Gly Pro Gly Ile Gln Gly Asp Ala His Phe Asp Asp Asp Glu  
 195 200 205

Leu Trp Ser Leu Gly Lys Gly Val Val Val Pro Thr Arg Phe Gly Asn  
 210 215 220

Ala Asp Gly Ala Ala Cys His Phe Pro Phe Ile Phe Glu Gly Arg Ser  
 225 230 235 240

Tyr Ser Ala Cys Thr Thr Asp Gly Arg Ser Asp Gly Leu Pro Trp Cys  
 245 250 255

Ser Thr Thr Ala Asn Tyr Asp Thr Asp Asp Arg Phe Gly Phe Cys Pro  
 260 265 270

Ser Glu Arg Leu Tyr Thr Arg Asp Gly Asn Ala Asp Gly Lys Pro Cys  
 275 280 285

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Gln Phe Pro Phe Ile Phe Gln Gly Gln Ser Tyr Ser Ala Cys Thr Thr  
 290 295 300  
 Asp Gly Arg Ser Asp Gly Tyr Arg Trp Cys Ala Thr Thr Ala Asn Tyr  
 305 310 315 320  
 Asp Arg Asp Lys Leu Phe Gly Phe Cys Pro Thr Arg Ala Asp Ser Thr  
 325 330 335  
 Val Met Gly Gly Asn Ser Ala Gly Glu Leu Cys Val Phe Pro Phe Thr  
 340 345 350  
 Phe Leu Gly Lys Glu Tyr Ser Thr Cys Thr Ser Glu Gly Arg Gly Asp  
 355 360 365  
 Gly Arg Leu Trp Cys Ala Thr Thr Ser Asn Phe Asp Ser Asp Lys Lys  
 370 375 380  
 Trp Gly Phe Cys Pro Asp Gln Gly Tyr Ser Leu Phe Leu Val Ala Ala  
 385 390 395 400  
 His Glu Phe Gly His Ala Leu Gly Leu Asp His Ser Ser Val Pro Glu  
 405 410 415  
 Ala Leu Met Tyr Pro Met Tyr Arg Phe Thr Glu Gly Pro Pro Leu His  
 420 425 430  
 Lys Asp Asp Val Asn Gly Ile Arg His Leu Tyr Gly Pro Arg Pro Glu  
 435 440 445  
 Pro Glu Pro Arg Pro Pro Thr Thr Thr Thr Pro Gln Pro Thr Ala Pro  
 450 455 460  
 Pro Thr Val Cys Pro Thr Gly Pro Pro Thr Val His Pro Ser Glu Arg  
 465 470 475 480  
 Pro Thr Ala Gly Pro Thr Gly Pro Pro Ser Ala Gly Pro Thr Gly Pro  
 485 490 495  
 Pro Thr Ala Gly Pro Ser Thr Ala Thr Thr Val Pro Leu Ser Pro Val  
 500 505 510  
 Asp Asp Ala Cys Asn Val Asn Ile Phe Asp Ala Ile Ala Glu Ile Gly  
 515 520 525  
 Asn Gln Leu Tyr Leu Phe Lys Asp Gly Lys Tyr Trp Arg Phe Ser Glu  
 530 535 540

Gly Arg Gly Ser Arg Pro Gln Gly Pro Phe Leu Ile Ala Asp Lys Trp  
 545 550 555 560

Pro Ala Leu Pro Arg Lys Leu Asp Ser Val Phe Glu Glu Pro Leu Ser  
 565 570 575

Lys Lys Leu Phe Phe Phe Ser Gly Arg Gln Val Trp Val Tyr Thr Gly  
 580 585 590

Ala Ser Val Leu Gly Pro Arg Arg Leu Asp Lys Leu Gly Leu Gly Ala  
 595 600 605

Asp Val Ala Gln Val Thr Gly Ala Leu Arg Ser Gly Arg Gly Lys Met  
 610 615 620

Leu Leu Phe Ser Gly Arg Arg Leu Trp Arg Phe Asp Val Lys Ala Gln  
 625 630 635 640

Met Val Asp Pro Arg Ser Ala Ser Glu Val Asp Arg Met Phe Pro Gly  
 645 650 655

Val Pro Leu Asp Thr His Asp Val Phe Gln Tyr Arg Glu Lys Ala Tyr  
 660 665 670

Phe Cys Gln Asp Arg Phe Tyr Trp Arg Val Ser Ser Arg Ser Glu Leu  
 675 680 685

Asn Gln Val Asp Gln Val Gly Tyr Val Thr Tyr Asp Ile Leu Gln Cys  
 690 695 700

Pro Glu Asp  
 705

<210> 540

<211> 1

<212> DNA

<213> Place holder

<400> 540  
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1

<210> 541

<211> 1256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 541

Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe Leu Asp  
 1 5 10 15

Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro Thr Gly  
 20 25 30

Leu Thr Thr Ala Lys Met Pro Ser Val Pro Leu Ser Ser Asp Pro Leu  
 35 40 45

Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu Arg Glu  
 50 55 60

Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn Thr Ser  
 65 70 75 80

Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe Asn Thr  
 85 90 95

Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His Ala Asp  
 100 105 110

Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser Gly Ser  
 115 120 125

Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala Ile Ser  
 130 135 140

Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly  
 145 150 155 160

Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro  
 165 170 175

Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn  
 180 185 190

Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn Val  
 195 200 205

Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu Thr  
 210 215 220

Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr Ala  
 225 230 235 240

Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys Phe  
 245 250 255

Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile Cys  
 260 265 270

Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile  
 275 280 285

Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu Ile  
 290 295 300

Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser Glu  
 305 310 315 320

Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys  
 325 330 335

Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser  
 340 345 350

Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg Ser  
 355 360 365

Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys  
 370 375 380

Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys  
 385 390 395 400

Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala Lys  
 405 410 415

Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys Ser  
 420 425 430

Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser Asp  
 435 440 445

Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro  
 450 455 460

His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val Arg  
 Page 490

465                      470                      475                      480  
 Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr  
                          485                      490                      495  
 Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro  
                          500                      505                      510  
 Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys Ala  
                          515                      520                      525  
 Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala Leu  
                          530                      535                      540  
 Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser Cys  
                          545                      550                      555                      560  
 Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys Gln  
                                  565                      570                      575  
 Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr Tyr  
                                  580                      585                      590  
 Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe Gln  
                                  595                      600                      605  
 Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg Lys  
                                  610                      615                      620  
 Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr Asp  
                                  625                      630                      635                      640  
 Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser Asn  
                                  645                      650                      655  
 Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys Tyr  
                                  660                      665                      670  
 Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp Arg  
                                  675                      680                      685  
 Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys  
                                  690                      695                      700  
 Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met Glu  
                                  705                      710                      715                      720

Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn Gln His  
725 730 735

Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val Asn Lys  
740 745 750

Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe Thr Ser  
755 760 765

Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu Lys Leu  
770 775 780

Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro Ile Val  
785 790 795 800

Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile  
805 810 815

Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp Val Tyr  
820 825 830

Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val Gln Val  
835 840 845

Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln  
850 855 860

Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr Leu His  
865 870 875 880

Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu Glu Ala  
885 890 895

Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln His Ile  
900 905 910

Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn Val Ile  
915 920 925

Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu Met Ser  
930 935 940

Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp Ser Asp  
945 950 955 960

Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile Met Ser Tyr  
965 970 975



Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro Leu Lys Glu Thr  
                   980                                  985                                  990

Ile Gly Asp Phe Trp Gln Met Ile Phe Gln Arg Lys Val Lys Val Ile  
                   995                                  1000                                  1005

Val Met Leu Thr Glu Leu Lys His Gly Asp Gln Glu Ile Cys Ala  
           1010                                  1015                                  1020

Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp Ile Glu Val  
           1025                                  1030                                  1035

Asp Leu Lys Asp Thr Asp Lys Ser Ser Thr Tyr Thr Leu Arg Val  
           1040                                  1045                                  1050

Phe Glu Leu Arg His Ser Lys Arg Lys Asp Ser Arg Thr Val Tyr  
           1055                                  1060                                  1065

Gln Tyr Gln Tyr Thr Asn Trp Ser Val Glu Gln Leu Pro Ala Glu  
           1070                                  1075                                  1080

Pro Lys Glu Leu Ile Ser Met Ile Gln Val Val Lys Gln Lys Leu  
           1085                                  1090                                  1095

Pro Gln Lys Asn Ser Ser Glu Gly Asn Lys His His Lys Ser Thr  
           1100                                  1105                                  1110

Pro Leu Leu Ile His Cys Arg Asp Gly Ser Gln Gln Thr Gly Ile  
           1115                                  1120                                  1125

Phe Cys Ala Leu Leu Asn Leu Leu Glu Ser Ala Glu Thr Glu Glu  
           1130                                  1135                                  1140

Val Val Asp Ile Phe Gln Val Val Lys Ala Leu Arg Lys Ala Arg  
           1145                                  1150                                  1155

Pro Gly Met Val Ser Thr Phe Glu Gln Tyr Gln Phe Leu Tyr Asp  
           1160                                  1165                                  1170

Val Ile Ala Ser Thr Tyr Pro Ala Gln Asn Gly Gln Val Lys Lys  
           1175                                  1180                                  1185

Asn Asn His Gln Glu Asp Lys Ile Glu Phe Asp Asn Glu Val Asp  
           1190                                  1195                                  1200

Lys Val Lys Gln Asp Ala Asn Cys Val Asn Pro Leu Gly Ala Pro  
           1205                                  1210                                  1215

Glu Lys Leu Pro Glu Ala Lys Glu Gln Ala Glu Gly Ser Glu Pro  
 1220 1225 1230

Thr Ser Gly Thr Glu Gly Pro Glu His Ser Val Asn Gly Pro Ala  
 1235 1240 1245

Ser Pro Ala Leu Asn Gln Gly Ser  
 1250 1255

<210> 542

<211> 419

<212> PRT

<213> Mus musculus

<400> 542

Met Ser Pro Leu Leu Leu Leu Leu Cys Leu Leu Leu Gly Asn Leu  
 1 5 10 15

Glu Pro Glu Glu Ala Lys Leu Ile Arg Val Pro Leu Gln Arg Ile His  
 20 25 30

Leu Gly His Arg Ile Leu Asn Pro Leu Asn Gly Trp Glu Gln Leu Ala  
 35 40 45

Glu Leu Ser Arg Thr Ser Thr Ser Gly Gly Asn Pro Ser Phe Val Pro  
 50 55 60

Leu Ser Lys Phe Met Asn Thr Gln Tyr Phe Gly Thr Ile Gly Leu Gly  
 65 70 75 80

Thr Pro Pro Gln Asn Phe Thr Val Val Phe Asp Thr Gly Ser Ser Asn  
 85 90 95

Leu Trp Val Pro Ser Thr Arg Cys His Phe Phe Ser Leu Ala Cys Trp  
 100 105 110

Phe His His Arg Phe Asn Pro Lys Ala Ser Ser Ser Phe Arg Pro Asn  
 115 120 125

Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly Arg Leu Ser Gly Ile  
 130 135 140

Leu Ser Gln Asp Asn Leu Thr Ile Gly Gly Ile His Asp Ala Phe Val  
 Page 494

145                      150                      155                      160  
 Thr Phe Gly Glu Ala<sub>165</sub> Leu Trp Glu Pro Ser<sub>170</sub> Leu Ile Phe Ala<sub>175</sub> Leu Ala  
 His Phe Asp Gly<sub>180</sub> Ile Leu Gly Leu Gly<sub>185</sub> Phe Pro Thr Leu Ala<sub>190</sub> Val Gly  
 Gly Val Gln<sub>195</sub> Pro Pro Leu Asp Ala<sub>200</sub> Met Val Glu Gln Gly<sub>205</sub> Leu Leu Glu  
 Lys Pro<sub>210</sub> Val Phe Ser Phe Tyr<sub>215</sub> Leu Asn Arg Asp<sub>220</sub> Ser Glu Gly Ser Asp  
 Gly<sub>225</sub> Gly Glu Leu Val<sub>230</sub> Leu Gly Gly Ser Asp<sub>235</sub> Pro Ala His Tyr Val<sub>240</sub> Pro  
 Pro Leu Thr Phe<sub>245</sub> Ile Pro Val Thr Ile<sub>250</sub> Pro Ala Tyr Trp Gln Val<sub>255</sub> His  
 Met Glu Ser Val<sub>260</sub> Lys Val Gly Thr Gly<sub>265</sub> Leu Ser Leu Cys Ala<sub>270</sub> Gln Gly  
 Cys Ser Ala<sub>275</sub> Ile Leu Asp Thr Gly<sub>280</sub> Thr Ser Leu Ile Thr<sub>285</sub> Gly Pro Ser  
 Glu Glu<sub>290</sub> Ile Arg Ala Leu Asn<sub>295</sub> Lys Ala Ile Gly Gly<sub>300</sub> Tyr Pro Phe Leu  
 Asn<sub>305</sub> Gly Gln Tyr Phe Ile<sub>310</sub> Gln Cys Ser Lys<sub>315</sub> Thr Pro Thr Leu Pro<sub>320</sub> Pro  
 Val Ser Phe His<sub>325</sub> Leu Gly Gly Val Trp Phe<sub>330</sub> Asn Leu Thr Gly<sub>335</sub> Gln Asp  
 Tyr Val Ile<sub>340</sub> Lys Ile Leu Gln Ser Asp<sub>345</sub> Val Gly Leu Cys Leu<sub>350</sub> Leu Gly  
 Phe Gln Ala<sub>355</sub> Leu Asp Ile Pro Lys<sub>360</sub> Pro Ala Gly Pro Leu Trp Ile Leu  
 Gly Asp<sub>370</sub> Val Phe Leu Gly Pro<sub>375</sub> Tyr Val Ala Val Phe Asp Arg Gly Asp  
 Lys<sub>385</sub> Asn Val Gly Pro Arg<sub>390</sub> Val Gly Leu Ala Arg<sub>395</sub> Ala Gln Ser Arg<sub>400</sub> Ser

Thr Asp Arg Ala Glu Arg Arg Thr Thr Gln Ala Gln Phe Phe Lys Arg  
 405 410 415

Arg Pro Gly

<210> 543

<211> 420

<212> PRT

<213> Homo sapiens

<400> 543

Met Ser Pro Pro Pro Leu Leu Gln Pro Leu Leu Leu Leu Leu Pro Leu  
 1 5 10 15

Leu Asn Val Glu Pro Ser Gly Ala Thr Leu Ile Arg Ile Pro Leu His  
 20 25 30

Arg Val Gln Pro Gly Arg Arg Ile Leu Asn Leu Leu Arg Gly Trp Arg  
 35 40 45

Glu Pro Ala Glu Leu Pro Lys Leu Gly Ala Pro Ser Pro Gly Asp Lys  
 50 55 60

Pro Ile Phe Val Pro Leu Ser Asn Tyr Arg Asp Val Gln Tyr Phe Gly  
 65 70 75 80

Glu Ile Gly Leu Gly Thr Pro Pro Gln Asn Phe Thr Val Ala Phe Asp  
 85 90 95

Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Arg Arg Cys His Phe Phe  
 100 105 110

Ser Val Pro Cys Trp Leu His His Arg Phe Asp Pro Lys Ala Ser Ser  
 115 120 125

Ser Phe Gln Ala Asn Gly Thr Lys Phe Ala Ile Gln Tyr Gly Thr Gly  
 130 135 140

Arg Val Asp Gly Ile Leu Ser Glu Asp Lys Leu Thr Ile Gly Gly Ile  
 145 150 155 160

Lys Gly Ala Ser Val Ile Phe Gly Glu Ala Leu Trp Glu Pro Ser Leu  
 165 170 175

69014-PRO2.ST25.txt

Val Phe Ala Phe Ala His Phe Asp Gly Ile Leu Gly Leu Gly Phe Pro  
180 185 190

Ile Leu Ser Val Glu Gly Val Arg Pro Pro Met Asp Val Leu Val Glu  
195 200 205

Gln Gly Leu Leu Asp Lys Pro Val Phe Ser Phe Tyr Leu Asn Arg Asp  
210 215 220

Pro Glu Glu Pro Asp Gly Gly Glu Leu Val Leu Gly Gly Ser Asp Pro  
225 230 235 240

Ala His Tyr Ile Pro Pro Leu Thr Phe Val Pro Val Thr Val Pro Ala  
245 250 255

Tyr Trp Gln Ile His Met Glu Arg Val Lys Val Gly Pro Gly Leu Thr  
260 265 270

Leu Cys Ala Lys Gly Cys Ala Ala Ile Leu Asp Thr Gly Thr Ser Leu  
275 280 285

Ile Thr Gly Pro Thr Glu Glu Ile Arg Ala Leu His Ala Ala Ile Gly  
290 295 300

Gly Ile Pro Leu Leu Ala Gly Glu Tyr Ile Ile Leu Cys Ser Glu Ile  
305 310 315 320

Pro Lys Leu Pro Ala Val Ser Phe Leu Leu Gly Gly Val Trp Phe Asn  
325 330 335

Leu Thr Ala His Asp Tyr Val Ile Gln Thr Thr Arg Asn Gly Val Arg  
340 345 350

Leu Cys Leu Ser Gly Phe Gln Ala Leu Asp Val Pro Pro Pro Ala Gly  
355 360 365

Pro Phe Trp Ile Leu Gly Asp Val Phe Leu Gly Thr Tyr Val Ala Val  
370 375 380

Phe Asp Arg Gly Asp Met Lys Ser Ser Ala Arg Val Gly Leu Ala Arg  
385 390 395 400

Ala Arg Thr Arg Gly Ala Asp Leu Gly Trp Gly Glu Thr Ala Gln Ala  
405 410 415

Gln Phe Pro Gly  
420

&lt;210&gt; 544

&lt;211&gt; 155

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 544

Met Gly Pro Lys Leu Leu Glu Ser Arg Leu Cys Leu Leu Leu Leu Leu  
 1 5 10 15

Gly Leu Val Leu Met Leu Ala Ser Cys Leu Gly Gln Thr Pro Ser Gln  
 20 25 30

Lys Phe Ala Ile Gln His Ile Asn Asn Asn Thr Asn Leu Gln Cys Asn  
 35 40 45

Val Glu Met Met Arg Ile Asn Arg Ala Arg Arg Thr Cys Lys Gly Leu  
 50 55 60

Asn Thr Phe Leu His Thr Ser Phe Ala Asn Ala Val Gly Val Cys Gly  
 65 70 75 80

Asn Pro Ser Gly Leu Cys Ser Asp Lys Arg Ser Gln Asn Cys His Asn  
 85 90 95

Ser Ser Ser Arg Val His Ile Thr Val Cys Asn Ile Thr Ser Arg Ala  
 100 105 110

Thr Asn Tyr Thr Gln Cys Arg Tyr Gln Ser Arg Arg Ser Leu Glu Tyr  
 115 120 125

Tyr Thr Val Ala Cys Asp Pro Arg Thr Pro Gln Asp Ser Pro Met Tyr  
 130 135 140

Pro Val Val Pro Val His Leu Asp Gly Thr Phe  
 145 150 155

&lt;210&gt; 545

&lt;211&gt; 486

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 545

Met Trp Lys Ser Val Val Gly His Asp Val Ser Val Ser Val Glu Thr  
 1 5 10 15

Gln Gly Asp Asp Trp Asp Thr Asp Pro Asp Phe Val Asn Asp Ile Ser  
 20 25 30

Glu Lys Glu Gln Arg Trp Gly Ala Lys Thr Ile Glu Gly Ser Gly Arg  
 35 40 45

Thr Glu His Ile Asn Ile His Gln Leu Arg Asn Lys Val Ser Glu Glu  
 50 55 60

His Asp Ile Leu Lys Lys Lys Glu Leu Glu Ser Gly Pro Lys Ala Ser  
 65 70 75 80

His Gly Tyr Gly Gly Gln Phe Gly Val Glu Arg Asp Arg Met Asp Lys  
 85 90 95

Ser Ala Val Gly His Glu Tyr Val Ala Asp Val Glu Lys His Ser Ser  
 100 105 110

Gln Thr Asp Ala Ala Arg Gly Phe Gly Gly Lys Tyr Gly Val Glu Arg  
 115 120 125

Asp Arg Ala Asp Lys Ser Ala Val Gly Phe Asp Tyr Lys Gly Glu Val  
 130 135 140

Glu Lys His Ala Ser Gln Lys Asp Tyr Ser His Gly Phe Gly Gly Arg  
 145 150 155 160

Tyr Gly Val Glu Lys Asp Lys Arg Asp Lys Ala Ala Leu Gly Tyr Asp  
 165 170 175

Tyr Lys Gly Glu Thr Glu Lys His Glu Ser Gln Arg Asp Tyr Ala Lys  
 180 185 190

Gly Phe Gly Gly Gln Tyr Gly Ile Gln Lys Asp Arg Val Asp Lys Ser  
 195 200 205

Ala Val Gly Phe Asn Glu Met Glu Ala Pro Thr Thr Ala Tyr Lys Lys  
 210 215 220

Thr Thr Pro Ile Glu Ala Ala Ser Ser Gly Ala Arg Gly Leu Lys Ala  
 225 230 235 240

Lys Phe Glu Ser Leu Ala Glu Glu Lys Arg Lys Arg Glu Glu Glu Glu  
 245 250 255  
 Lys Ala Gln Gln Met Ala Arg Gln Gln Gln Glu Arg Lys Ala Val Val  
 260 265 270  
 Lys Met Ser Arg Glu Val Gln Gln Pro Ser Met Pro Val Glu Glu Pro  
 275 280 285  
 Ala Ala Pro Ala Gln Leu Pro Lys Lys Ile Ser Ser Glu Val Trp Pro  
 290 295 300  
 Pro Ala Glu Ser His Leu Pro Pro Glu Ser Gln Pro Val Arg Ser Arg  
 305 310 315 320  
 Arg Glu Tyr Pro Val Pro Ser Leu Pro Thr Arg Gln Ser Pro Leu Gln  
 325 330 335  
 Asn His Leu Glu Asp Asn Glu Glu Pro Pro Ala Leu Pro Pro Arg Thr  
 340 345 350  
 Pro Glu Gly Leu Gln Val Val Glu Glu Pro Val Tyr Glu Ala Ala Pro  
 355 360 365  
 Glu Leu Glu Pro Glu Pro Glu Pro Asp Tyr Glu Pro Glu Pro Glu Thr  
 370 375 380  
 Glu Pro Asp Tyr Glu Asp Val Gly Glu Leu Asp Arg Gln Asp Glu Asp  
 385 390 395 400  
 Ala Glu Gly Asp Tyr Glu Asp Val Leu Glu Pro Glu Asp Thr Pro Ser  
 405 410 415  
 Leu Ser Tyr Gln Ala Gly Pro Ser Ala Gly Ala Gly Gly Ala Gly Ile  
 420 425 430  
 Ser Ala Ile Ala Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu  
 435 440 445  
 Ser Phe Asp Pro Asp Asp Ile Ile Thr Asp Ile Glu Met Val Asp Glu  
 450 455 460  
 Gly Trp Trp Arg Gly Gln Cys Arg Gly His Phe Gly Leu Phe Pro Ala  
 465 470 475 480  
 Asn Tyr Val Lys Leu Leu  
 485



&lt;210&gt; 546

&lt;211&gt; 486

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 546

Met Trp Lys Ser Val Val Gly His Asp Val Ser Val Ser Val Glu Thr  
 1 5 10 15

Gln Gly Asp Asp Trp Asp Thr Asp Pro Asp Phe Val Asn Asp Ile Ser  
 20 25 30

Glu Lys Glu Gln Arg Trp Gly Ala Lys Thr Ile Glu Gly Ser Gly Arg  
 35 40 45

Thr Glu His Ile Asn Ile His Gln Leu Arg Asn Lys Val Ser Glu Glu  
 50 55 60

His Asp Val Leu Arg Lys Lys Glu Met Glu Ser Gly Pro Lys Ala Ser  
 65 70 75 80

His Gly Tyr Gly Gly Arg Phe Gly Val Glu Arg Asp Arg Met Asp Lys  
 85 90 95

Ser Ala Val Gly His Glu Tyr Val Ala Glu Val Glu Lys His Ser Ser  
 100 105 110

Gln Thr Asp Ala Ala Lys Gly Phe Gly Gly Lys Tyr Gly Val Glu Arg  
 115 120 125

Asp Arg Ala Asp Lys Ser Ala Val Gly Phe Asp Tyr Lys Gly Glu Val  
 130 135 140

Glu Lys His Thr Ser Gln Lys Asp Tyr Ser Arg Gly Phe Gly Gly Arg  
 145 150 155 160

Tyr Gly Val Glu Lys Asp Lys Trp Asp Lys Ala Ala Leu Gly Tyr Asp  
 165 170 175

Tyr Lys Gly Glu Thr Glu Lys His Glu Ser Gln Arg Asp Tyr Ala Lys  
 180 185 190

Gly Phe Gly Gly Gln Tyr Gly Ile Gln Lys Asp Arg Val Asp Lys Ser  
 195 200 205

Ala Val Gly Phe Asn Glu Met Glu Ala Pro Thr Thr Ala Tyr Lys Lys  
 210 215 220  
 Thr Thr Pro Ile Glu Ala Ala Ser Ser Gly Ala Arg Gly Leu Lys Ala  
 225 230 235 240  
 Lys Phe Glu Ser Met Ala Glu Glu Lys Arg Lys Arg Glu Glu Glu Glu  
 245 250 255  
 Lys Ala Gln Gln Val Ala Arg Arg Gln Gln Glu Arg Lys Ala Val Thr  
 260 265 270  
 Lys Arg Ser Pro Glu Ala Pro Gln Pro Val Ile Ala Met Glu Glu Pro  
 275 280 285  
 Ala Val Pro Ala Pro Leu Pro Lys Lys Ile Ser Ser Glu Ala Trp Pro  
 290 295 300  
 Pro Val Gly Thr Pro Pro Ser Ser Glu Ser Glu Pro Val Arg Thr Ser  
 305 310 315 320  
 Arg Glu His Pro Val Pro Leu Leu Pro Ile Arg Gln Thr Leu Pro Glu  
 325 330 335  
 Asp Asn Glu Glu Pro Pro Ala Leu Pro Pro Arg Thr Leu Glu Gly Leu  
 340 345 350  
 Gln Val Glu Glu Glu Pro Val Tyr Glu Ala Glu Pro Glu Pro Glu Pro  
 355 360 365  
 Glu Pro Glu Pro Glu Pro Glu Asn Asp Tyr Glu Asp Val Glu Glu Met  
 370 375 380  
 Asp Arg His Glu Gln Glu Asp Glu Pro Glu Gly Asp Tyr Glu Glu Val  
 385 390 395 400  
 Leu Glu Pro Glu Asp Ser Ser Phe Ser Ser Ala Leu Ala Gly Ser Ser  
 405 410 415  
 Gly Cys Pro Ala Gly Ala Gly Ala Gly Ala Val Ala Leu Gly Ile Ser  
 420 425 430  
 Ala Val Ala Leu Tyr Asp Tyr Gln Gly Glu Gly Ser Asp Glu Leu Ser  
 435 440 445  
 Phe Asp Pro Asp Asp Val Ile Thr Asp Ile Glu Met Val Asp Glu Gly  
 Page 502

450

455

460

Trp Trp Arg Gly Arg Cys His Gly His Phe Gly Leu Phe Pro Ala Asn  
 465 470 475 480

Tyr Val Lys Leu Leu Glu  
 485

&lt;210&gt; 547

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 547

Met Ser Ser Ala Ile Glu Arg Lys Ser Leu Asp Pro Ser Glu Glu Pro  
 1 5 10 15

Val Asp Glu Val Leu Gln Ile Pro Pro Ser Leu Leu Thr Cys Gly Gly.  
 20 25 30

Cys Gln Gln Asn Ile Gly Asp Arg Tyr Phe Leu Lys Ala Ile Asp Gln  
 35 40 45

Tyr Trp His Glu Asp Cys Leu Ser Cys Asp Leu Cys Gly Cys Arg Leu  
 50 55 60

Gly Glu Val Gly Arg Arg Leu Tyr Tyr Lys Leu Gly Arg Lys Leu Cys  
 65 70 75 80

Arg Arg Asp Tyr Leu Arg Leu Phe Gly Gln Asp Gly Leu Cys Ala Ser  
 85 90 95

Cys Asp Lys Arg Ile Arg Ala Tyr Glu Met Thr Met Arg Val Lys Asp  
 100 105 110

Lys Val Tyr His Leu Glu Cys Phe Lys Cys Ala Ala Cys Gln Lys His  
 115 120 125

Phe Cys Val Gly Asp Arg Tyr Leu Leu Ile Asn Ser Asp Ile Val Cys  
 130 135 140

Glu Gln Asp Ile Tyr Glu Trp Thr Lys Ile Asn Gly Ile Ile  
 145 150 155

&lt;210&gt; 548

&lt;211&gt; 158

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 548

Met Ser Ser Ala Ile Glu Arg Lys Ser Leu Asp Pro Ser Glu Glu Pro  
 1 5 10 15

Val Asp Glu Val Leu Gln Ile Pro Pro Ser Leu Leu Thr Cys Gly Gly  
 20 25 30

Cys Gln Gln Asn Ile Gly Asp Arg Tyr Phe Leu Lys Ala Ile Asp Gln  
 35 40 45

Tyr Trp His Glu Asp Cys Leu Ser Cys Asp Leu Cys Gly Cys Arg Leu  
 50 55 60

Gly Glu Val Gly Arg Arg Leu Tyr Tyr Lys Leu Gly Arg Lys Leu Cys  
 65 70 75 80

Arg Arg Asp Tyr Leu Arg Leu Phe Gly Gln Asp Gly Leu Cys Ala Ser  
 85 90 95

Cys Asp Lys Arg Ile Arg Ala Tyr Glu Met Thr Met Arg Val Lys Asp  
 100 105 110

Lys Val Tyr His Leu Glu Cys Phe Lys Cys Ala Ala Cys Gln Lys His  
 115 120 125

Phe Cys Val Gly Asp Arg Tyr Leu Leu Ile Asn Ser Asp Ile Val Cys  
 130 135 140

Glu Gln Asp Ile Tyr Glu Trp Thr Lys Ile Asn Gly Met Ile  
 145 150 155

&lt;210&gt; 549

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 549

69014-PRO2.ST25.txt

Lys Leu Phe Asp Ser Ile Cys Asn Asn Lys Trp Phe Thr Asp Thr Ser  
1 5 10 15

Ile Ile Leu Phe Leu Asn Lys Lys Asp Leu Phe Glu Glu Lys Ile Lys  
20 25 30

Lys Ser Pro Leu Thr Ile Cys Tyr Pro Glu Tyr Ala Gly Ser Asn Thr  
35 40 45

Tyr Glu Glu Ala Ala Ala Tyr Ile Gln Cys Gln Phe  
50 55 60

<210> 550

<211> 355

<212> PRT

<213> Homo sapiens

<400> 550

Met Gly Cys Thr Val Ser Ala Glu Asp Lys Ala Ala Ala Glu Arg Ser  
1 5 10 15

Lys Met Ile Asp Lys Asn Leu Arg Glu Asp Gly Glu Lys Ala Ala Arg  
20 25 30

Glu Val Lys Leu Leu Leu Leu Gly Ala Gly Glu Ser Gly Lys Ser Thr  
35 40 45

Ile Val Lys Gln Met Lys Ile Ile His Glu Asp Gly Tyr Ser Glu Glu  
50 55 60

Glu Cys Arg Gln Tyr Arg Ala Val Val Tyr Ser Asn Thr Ile Gln Ser  
65 70 75 80

Ile Met Ala Ile Val Lys Ala Met Gly Asn Leu Gln Ile Asp Phe Ala  
85 90 95

Asp Pro Ser Arg Ala Asp Asp Ala Arg Gln Leu Phe Ala Leu Ser Cys  
100 105 110

Thr Ala Glu Glu Gln Gly Val Leu Pro Asp Asp Leu Ser Gly Val Ile  
115 120 125

Arg Arg Leu Trp Ala Asp His Gly Val Gln Ala Cys Phe Gly Arg Ser  
130 135 140

Arg Glu Tyr Gln Leu Asn Asp Ser Ala Ala Tyr Tyr Leu Asn Asp Leu  
145 150 155 160

Glu Arg Ile Ala Gln Ser Asp Tyr Ile Pro Thr Gln Gln Asp Val Leu  
165 170 175

Arg Thr Arg Val Lys Thr Thr Gly Ile Val Glu Thr His Phe Thr Phe  
180 185 190

Lys Asp Leu His Phe Lys Met Phe Asp Val Gly Gly Gln Arg Ser Glu  
195 200 205

Arg Lys Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe  
210 215 220

Cys Val Ala Leu Ser Ala Tyr Asp Leu Val Leu Ala Glu Asp Glu Glu  
225 230 235 240

Met Asn Arg Met His Glu Ser Met Lys Leu Phe Asp Ser Ile Cys Asn  
245 250 255

Asn Lys Trp Phe Thr Asp Thr Ser Ile Ile Leu Phe Leu Asn Lys Lys  
260 265 270

Asp Leu Phe Glu Glu Lys Ile Thr His Ser Pro Leu Thr Ile Cys Phe  
275 280 285

Pro Glu Tyr Thr Gly Ala Asn Lys Tyr Asp Glu Ala Ala Ser Tyr Ile  
290 295 300

Gln Ser Lys Phe Glu Asp Leu Asn Lys Arg Lys Asp Thr Lys Glu Ile  
305 310 315 320

Tyr Thr His Phe Thr Cys Ala Thr Asp Thr Lys Asn Val Gln Phe Val  
325 330 335

Phe Asp Ala Val Thr Asp Val Ile Ile Lys Asn Asn Leu Lys Asp Cys  
340 345 350

Gly Leu Phe  
355

<210> 551

<211> 264

<212> PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 551

Met Glu Ser Gly Phe Thr Ser Lys Asp Thr Tyr Leu Ser His Phe Asn  
 1 5 10 15

Pro Arg Asp Tyr Leu Glu Lys Tyr Tyr Ser Phe Gly Ser Arg His Cys  
 20 25 30

Ala Glu Asn Glu Ile Leu Arg His Leu Leu Lys Asn Leu Phe Lys Ile  
 35 40 45

Phe Cys Leu Gly Ala Val Lys Gly Glu Leu Leu Ile Asp Ile Gly Ser  
 50 55 60

Gly Pro Thr Ile Tyr Gln Leu Leu Ser Ala Cys Glu Ser Phe Thr Glu  
 65 70 75 80

Ile Ile Val Ser Asp Tyr Thr Asp Gln Asn Leu Trp Glu Leu Gln Lys  
 85 90 95

Trp Leu Lys Lys Glu Pro Gly Ala Phe Asp Trp Ser Pro Val Val Thr  
 100 105 110

Tyr Val Cys Asp Leu Glu Gly Asn Arg Met Lys Gly Pro Glu Lys Glu  
 115 120 125

Glu Lys Leu Arg Arg Ala Ile Lys Gln Val Leu Lys Cys Asp Val Thr  
 130 135 140

Gln Ser Gln Pro Leu Gly Gly Val Ser Leu Pro Pro Ala Asp Cys Leu  
 145 150 155 160

Leu Ser Thr Leu Cys Leu Asp Ala Ala Cys Pro Asp Leu Pro Ala Tyr  
 165 170 175

Arg Thr Ala Leu Arg Asn Leu Gly Ser Leu Leu Lys Pro Gly Gly Phe  
 180 185 190

Leu Val Met Val Asp Ala Leu Lys Ser Ser Tyr Tyr Met Ile Gly Glu  
 195 200 205

Gln Lys Phe Ser Ser Leu Pro Leu Gly Trp Glu Thr Val Arg Asp Ala  
 210 215 220

Val Glu Glu Ala Gly Tyr Thr Ile Glu Gln Phe Glu Val Ile Ser Gln  
 225 230 235 240

Asn Tyr Ser Ser Thr Thr Ser Asn Asn Glu Gly Leu Phe Ser Leu Val  
 245 250 255

Gly Arg Lys Pro Gly Arg Ser Glu  
 260

<210> 552

<211> 264

<212> PRT

<213> Homo sapiens

<400> 552

Met Glu Ser Gly Phe Thr Ser Lys Asp Thr Tyr Leu Ser His Phe Asn  
 1 5 10 15

Pro Arg Asp Tyr Leu Glu Lys Tyr Tyr Lys Phe Gly Ser Arg His Ser  
 20 25 30

Ala Glu Ser Gln Ile Leu Lys His Leu Leu Lys Asn Leu Phe Lys Ile  
 35 40 45

Phe Cys Leu Asp Gly Val Lys Gly Asp Leu Leu Ile Asp Ile Gly Ser  
 50 55 60

Gly Pro Thr Ile Tyr Gln Leu Leu Ser Ala Cys Glu Ser Phe Lys Glu  
 65 70 75 80

Ile Val Val Thr Asp Tyr Ser Asp Gln Asn Leu Gln Glu Leu Glu Lys  
 85 90 95

Trp Leu Lys Lys Glu Pro Glu Ala Phe Asp Trp Ser Pro Val Val Thr  
 100 105 110

Tyr Val Cys Asp Leu Glu Gly Asn Arg Val Lys Gly Pro Glu Lys Glu  
 115 120 125

Glu Lys Leu Arg Gln Ala Val Lys Gln Val Leu Lys Cys Asp Val Thr  
 130 135 140

Gln Ser Gln Pro Leu Gly Ala Val Pro Leu Pro Pro Ala Asp Cys Val  
 145 150 155 160



69014-PRO2.ST25.txt

Leu Ser Thr Leu Cys Leu Asp Ala Ala Cys Pro Asp Leu Pro Thr Tyr  
165 170 175  
Cys Arg Ala Leu Arg Asn Leu Gly Ser Leu Leu Lys Pro Gly Gly Phe  
180 185 190  
Leu Val Ile Met Asp Ala Leu Lys Ser Ser Tyr Tyr Met Ile Gly Glu  
195 200 205  
Gln Lys Phe Ser Ser Leu Pro Leu Gly Arg Glu Ala Val Glu Ala Ala  
210 215 220  
Val Lys Glu Ala Gly Tyr Thr Ile Glu Trp Phe Glu Val Ile Ser Gln  
225 230 235 240  
Ser Tyr Ser Ser Thr Met Ala Asn Asn Glu Gly Leu Phe Ser Leu Val  
245 250 255  
Ala Arg Lys Leu Ser Arg Pro Leu  
260

<210> 553

<211> 219

<212> PRT

<213> Mus musculus bactrianus

<400> 553

Met Leu Arg Ala Gly Ala Pro Thr Ala Gly Ser Phe Arg Thr Glu Glu  
1 5 10 15  
Val His Thr Gly Thr Thr Ile Met Ala Val Glu Phe Asp Gly Gly Val  
20 25 30  
Val Val Gly Ser Asp Ser Arg Val Ser Ala Gly Thr Ala Val Val Asn  
35 40 45  
Arg Val Phe Asp Lys Leu Ser Pro Leu His Gln Arg Ile Phe Cys Ala  
50 55 60  
Leu Ser Gly Ser Ala Ala Asp Ala Gln Ala Ile Ala Asp Met Ala Ala  
65 70 75 80  
Tyr Gln Leu Glu Leu His Gly Leu Glu Leu Glu Glu Pro Pro Leu Val  
85 90 95

Leu Ala Ala Ala Asn Val Val Lys Asn Ile Ser Tyr Lys Tyr Arg Glu  
 100 105 110

Asp Leu Leu Ala His Leu Ile Val Ala Gly Trp Asp Gln Arg Glu Gly  
 115 120 125

Gly Gln Val Tyr Gly Thr Met Gly Gly Met Leu Ile Arg Gln Pro Phe  
 130 135 140

Thr Ile Ser Gly Ser Gly Ser Ser Tyr Ile Tyr Gly Tyr Val Asp Ala  
 145 150 155 160

Ala Tyr Lys Pro Gly Met Thr Pro Glu Glu Cys Arg Arg Phe Thr Thr  
 165 170 175

Asn Ala Ile Thr Leu Ala Met Asn Arg Asp Gly Ser Ser Gly Gly Val  
 180 185 190

Ile Tyr Leu Val Thr Ile Thr Ala Ala Gly Val Asp His Arg Val Ile  
 195 200 205

Leu Gly Asp Glu Leu Pro Lys Phe Tyr Asp Glu  
 210 215

<210> 554

<211> 219

<212> PRT

<213> Homo sapiens

<400> 554

Met Leu Arg Ala Gly Ala Pro Thr Gly Asp Leu Pro Arg Ala Gly Glu  
 1 5 10 15

Val His Thr Gly Thr Thr Ile Met Ala Val Glu Phe Asp Gly Gly Val  
 20 25 30

Val Met Gly Ser Asp Ser Arg Val Ser Ala Gly Glu Ala Val Val Asn  
 35 40 45

Arg Val Phe Asp Lys Leu Ser Pro Leu His Glu Arg Ile Tyr Cys Ala  
 50 55 60

Leu Ser Gly Ser Ala Ala Asp Ala Gln Ala Val Ala Asp Met Ala Ala  
 Page 510

65

70

75

80

Tyr Gln Leu Glu Leu His Gly Ile Glu Leu Glu Glu Pro Pro Leu Val  
                     85                    90                    95

Leu Ala Ala Ala Asn Val Val Arg Asn Ile Ser Tyr Lys Tyr Arg Glu  
                     100                    105                    110

Asp Leu Ser Ala His Leu Met Val Ala Gly Trp Asp Gln Arg Glu Gly  
                     115                    120                    125

Gly Gln Val Tyr Gly Thr Leu Gly Gly Met Leu Thr Arg Gln Pro Phe  
                     130                    135                    140

Ala Ile Gly Gly Ser Gly Ser Thr Phe Ile Tyr Gly Tyr Val Asp Ala  
                     145                    150                    155                    160

Ala Tyr Lys Pro Gly Met Ser Pro Glu Glu Cys Arg Arg Phe Thr Thr  
                     165                    170                    175

Asp Ala Ile Ala Leu Ala Met Ser Arg Asp Gly Ser Ser Gly Gly Val  
                     180                    185                    190

Ile Tyr Leu Val Thr Ile Thr Ala Ala Gly Val Asp His Arg Val Ile  
                     195                    200                    205

Leu Gly Asn Glu Leu Pro Lys Phe Tyr Asp Glu  
                     210                    215

<210> 555

<211> 589

<212> PRT

<213> Mus musculus

<400> 555

Met Ala Ser Glu Ile His Met Ser Glu Pro Met Cys Leu Ile Glu Asn  
   1                    5                    10                    15

Thr Glu Ala Gln Leu Val Ile Asn Gln Glu Ala Leu Arg Ile Leu Ser  
                     20                    25                    30

Ala Ile Thr Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg  
                     35                    40                    45

## 69014-PRO2.ST25.txt

Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Arg Thr Gly  
 50 55 60  
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met  
 65 70 75 80  
 Trp Cys Val Pro His Pro Lys Lys Ala Gly Gln Thr Leu Val Leu Leu  
 85 90 95  
 Asp Thr Glu Gly Leu Glu Asp Val Glu Lys Gly Asp Asn Gln Asn Asp  
 100 105 110  
 Cys Trp Ile Phe Ala Leu Ala Val Leu Leu Ser Ser Thr Phe Ile Tyr  
 115 120 125  
 Asn Ser Ile Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu His Tyr  
 130 135 140  
 Val Thr Glu Leu Thr Asp Leu Ile Lys Ser Lys Ser Ser Pro Asp Gln  
 145 150 155 160  
 Ser Gly Val Asp Asp Ser Ala Asn Phe Val Gly Phe Phe Pro Thr Phe  
 165 170 175  
 Val Trp Thr Leu Arg Asp Phe Ser Leu Glu Leu Glu Val Asn Gly Lys  
 180 185 190  
 Pro Val Thr Ser Asp Glu Tyr Leu Glu His Ser Leu Thr Leu Lys Lys  
 195 200 205  
 Gly Ala Asp Lys Lys Thr Lys Ser Phe Asn Glu Pro Arg Leu Cys Ile  
 210 215 220  
 Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Ile Phe Asp Arg Pro Ala  
 225 230 235 240  
 Gln Arg Lys Gln Leu Ser Lys Leu Glu Thr Leu Arg Glu Glu Glu Leu  
 245 250 255  
 Cys Gly Glu Phe Val Glu Gln Val Ala Glu Phe Thr Ser Tyr Ile Leu  
 260 265 270  
 Ser Tyr Ser Ser Val Lys Thr Leu Cys Gly Gly Ile Ile Val Asn Gly  
 275 280 285  
 Pro Arg Leu Lys Ser Leu Val Gln Thr Tyr Val Gly Ala Ile Ser Asn  
 290 295 300

## 69014-PRO2.ST25.txt

Gly Ser Leu Pro Cys Met Glu Ser Ala Val Leu Thr Leu Ala Gln Ile  
 305 310 315 320  
 Glu Asn Ser Ala Ala Val Gln Lys Ala Ile Thr His Tyr Glu Glu Gln  
 325 330 335  
 Met Asn Gln Lys Ile Gln Met Pro Thr Glu Thr Leu Gln Glu Leu Leu  
 340 345 350  
 Asp Leu His Arg Pro Ile Glu Ser Glu Ala Ile Glu Val Phe Leu Lys  
 355 360 365  
 Asn Ser Phe Lys Asp Val Asp Gln Lys Phe Gln Thr Glu Leu Gly Asn  
 370 375 380  
 Leu Leu Val Ala Lys Arg Asp Ala Phe Ile Lys Lys Asn Met Asp Val  
 385 390 395 400  
 Ser Ser Ala Arg Cys Ser Asp Leu Leu Glu Asp Ile Phe Gly Pro Leu  
 405 410 415  
 Glu Glu Glu Val Lys Leu Gly Thr Phe Ser Lys Pro Gly Gly Tyr Tyr  
 420 425 430  
 Leu Phe Leu Gln Met Arg Gln Glu Leu Glu Lys Lys Tyr Asn Gln Ala  
 435 440 445  
 Pro Gly Lys Gly Leu Gln Ala Glu Ala Met Leu Lys Asn Tyr Phe Asp  
 450 455 460  
 Ser Lys Ala Asp Val Val Glu Thr Leu Leu Gln Thr Asp Gln Ser Leu  
 465 470 475 480  
 Thr Glu Ala Ala Lys Glu Val Glu Glu Glu Arg Thr Lys Ala Glu Ala  
 485 490 495  
 Ala Glu Ala Ala Asn Arg Glu Leu Glu Lys Lys Gln Lys Glu Phe Glu  
 500 505 510  
 Leu Met Met Gln Gln Lys Glu Lys Ser Tyr Gln Glu His Val Lys Lys  
 515 520 525  
 Leu Thr Glu Lys Met Lys Asp Glu Gln Lys Gln Leu Leu Ala Glu Gln  
 530 535 540  
 Glu Asn Ile Ile Ala Ala Lys Leu Arg Glu Gln Glu Lys Phe Leu Lys  
 545 550 555 560

Glu Gly Phe Glu Asn Glu Ser Lys Lys Leu Ile Arg Glu Ile Asp Thr  
565 570 575

Leu Lys Gln Asn Lys Ser Ser Gly Lys Cys Thr Ile Leu  
580 585

<210> 556

**<211> 591**

<212> PRT

<213> Homo sapiens

**<400>      556**

Met Ala Pro Glu Ile Asn Leu Pro Gly Pro Met Ser Leu Ile Asp Asn  
1 5 10 15

Thr Lys Gly Gln Leu Val Val Asn Pro Glu Ala Leu Lys Ile Leu Ser  
20 25 30

Ala Ile Thr Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg  
35 40 45

Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Asn Gly  
50 55 60

Phe Ser Leu Gly Ser Thr Val Lys Ser His Thr Lys Gly Ile Trp Met  
65 70 75 80

Trp Cys Val Pro His Pro Lys Lys Pro Glu His Thr Leu Val Leu Leu  
85 90 95

Asp Thr Glu Gly Leu Gly Asp Ile Glu Lys Gly Asp Asn Glu Asn Asp  
100 105 110

Ser Trp Ile Phe Ala Leu Ala Ile Leu Leu Ser Ser Thr Phe Val Tyr  
115 120 125

Asn Ser Met Gly Thr Ile Asn Gln Gln Ala Met Asp Gln Leu His Tyr  
130 135 140

Val Thr Glu Leu Thr Asp Arg Ile Lys Ala Asn Ser Ser Pro Gly Asn  
145 150 155 160

Asn Ser Val Asp Asp Ser Ala Asp Phe Val Ser Phe Phe Pro Ala Phe  
Page 514

165

170

175

Val Trp Thr Leu Arg Asp Phe Thr Leu Glu Leu Glu Val Asp Gly Glu  
 180 185 190  
 Pro Ile Thr Ala Asp Asp Tyr Leu Glu Leu Ser Leu Lys Leu Arg Lys  
 195 200 205  
 Gly Thr Asp Lys Lys Ser Lys Ser Phe Asn Asp Pro Arg Leu Cys Ile  
 210 215 220  
 Arg Lys Phe Phe Pro Lys Arg Lys Cys Phe Val Phe Asp Trp Pro Ala  
 225 230 235 240  
 Pro Lys Lys Tyr Leu Ala His Leu Glu Gln Leu Lys Glu Glu Glu Leu  
 245 250 255  
 Asn Pro Asp Phe Ile Glu Gln Val Ala Glu Phe Cys Ser Tyr Ile Leu  
 260 265 270  
 Ser His Ser Asn Val Lys Thr Leu Ser Gly Gly Ile Pro Val Asn Gly  
 275 280 285  
 Pro Arg Leu Glu Ser Leu Val Leu Thr Tyr Val Asn Ala Ile Ser Ser  
 290 295 300  
 Gly Asp Leu Pro Cys Met Glu Asn Ala Val Leu Ala Leu Ala Gln Ile  
 305 310 315 320  
 Glu Asn Ser Ala Ala Val Glu Lys Ala Ile Ala His Tyr Glu Gln Gln  
 325 330 335  
 Met Gly Gln Lys Val Gln Leu Pro Thr Glu Thr Leu Gln Glu Leu Leu  
 340 345 350  
 Asp Leu His Arg Asp Ser Glu Arg Glu Ala Ile Glu Val Phe Met Lys  
 355 360 365  
 Asn Ser Phe Lys Asp Val Asp Gln Met Phe Gln Arg Lys Leu Gly Ala  
 370 375 380  
 Gln Leu Glu Ala Arg Arg Asp Asp Phe Cys Lys Gln Asn Ser Lys Ala  
 385 390 395 400  
 Ser Ser Asp Cys Cys Met Ala Leu Leu Gln Asp Ile Phe Gly Pro Leu  
 405 410 415

Glu Glu Asp Val Lys Gln Gly Thr Phe Ser Lys Pro Gly Gly Tyr Arg  
 420 425 430

Leu Phe Thr Gln Lys Leu Gln Glu Leu Lys Asn Lys Tyr Tyr Gln Val  
 435 440 445

Pro Arg Lys Gly Ile Gln Ala Lys Glu Val Leu Lys Lys Tyr Leu Glu  
 450 455 460

Ser Lys Glu Asp Val Ala Asp Ala Leu Leu Gln Thr Asp Gln Ser Leu  
 465 470 475 480

Ser Glu Lys Glu Lys Ala Ile Glu Val Glu Arg Ile Lys Ala Glu Ser  
 485 490 495

Ala Glu Ala Ala Lys Lys Met Leu Glu Glu Ile Gln Lys Lys Asn Glu  
 500 505 510

Glu Met Met Glu Gln Lys Glu Lys Ser Tyr Gln Glu His Val Lys Gln  
 515 520 525

Leu Thr Glu Lys Met Glu Arg Asp Arg Ala Gln Leu Met Ala Glu Gln  
 530 535 540

Glu Lys Thr Leu Ala Leu Lys Leu Gln Glu Gln Glu Arg Leu Leu Lys  
 545 550 555 560

Glu Gly Phe Glu Asn Glu Ser Lys Arg Leu Gln Lys Asp Ile Trp Asp  
 565 570 575

Ile Gln Met Arg Ser Lys Ser Leu Glu Pro Ile Cys Asn Ile Leu  
 580 585 590

<210> 557

<211> 253

<212> PRT

<213> Mus musculus

<400> 557

Ser Gly Ser Tyr Pro Ser Pro Lys Gly Ile His Pro Phe Leu Leu Leu  
 1 5 10 15

Ala Leu Val Val Gly Gly Ala Val Gln Ala Ser Lys Ile Val Gly Gly  
 20 25 30



## 69014-PRO2.ST25.txt

His Glu Ala Arg Pro His Ser Arg Pro Tyr Val Ala Ser Leu Gln Leu  
 35 40 45  
 Ser Arg Phe Pro Gly Ser His Phe Cys Gly Gly Thr Leu Ile His Pro  
 50 55 60  
 Arg Phe Val Leu Thr Ala Ala His Cys Leu Gln Asp Ile Ser Trp Gln  
 65 70 75 80  
 Leu Val Thr Val Val Leu Gly Ala His Asp Leu Leu Ser Ser Glu Pro  
 85 90 95  
 Glu Gln Gln Lys Phe Thr Ile Ser Gln Val Phe Gln Asn Asn Tyr Asn  
 100 105 110  
 Pro Glu Glu Asn Leu Asn Asp Val Leu Leu Leu Gln Leu Asn Arg Thr  
 115 120 125  
 Ala Ser Leu Gly Lys Glu Val Ala Val Ala Ser Leu Pro Gln Gln Asp  
 130 135 140  
 Gln Thr Leu Ser Gln Gly Thr Gln Cys Leu Ala Met Gly Trp Gly Arg  
 145 150 155 160  
 Leu Gly Thr Gln Ala Pro Thr Pro Arg Val Leu Gln Glu Leu Asn Val  
 165 170 175  
 Thr Val Val Thr Phe Leu Cys Arg Glu His Asn Val Cys Thr Leu Val  
 180 185 190  
 Pro Arg Arg Ala Ala Gly Ile Cys Phe Gly Asp Ser Gly Gly Pro Leu  
 195 200 205  
 Ile Cys Asn Gly Ile Leu His Gly Val Asp Ser Phe Val Ile Arg Glu  
 210 215 220  
 Cys Ala Ser Leu Gln Phe Pro Asp Phe Phe Ala Arg Val Ser Met Tyr  
 225 230 235 240  
 Val Asp Trp Ile Gln Asn Val Leu Arg Gly Ala Glu Pro  
 245 250

&lt;210&gt; 558

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 558

Met Ala His Arg Pro Pro Ser Pro Ala Leu Ala Ser Val Leu Leu Ala  
 1 5 10 15  
 Leu Leu Leu Ser Gly Ala Ala Arg Ala Ala Glu Ile Val Gly Gly His  
 20 25 30  
 Glu Ala Gln Pro His Ser Arg Pro Tyr Met Ala Ser Leu Gln Met Arg  
 35 40 45  
 Gly Asn Pro Gly Ser His Phe Cys Gly Gly Thr Leu Ile His Pro Ser  
 50 55 60  
 Phe Val Leu Thr Ala Ala His Cys Leu Arg Asp Ile Pro Gln Arg Leu  
 65 70 75 80  
 Val Asn Val Val Leu Gly Ala His Asn Val Arg Thr Gln Glu Pro Thr  
 85 90 95  
 Gln Gln His Phe Ser Val Ala Gln Val Phe Leu Asn Asn Tyr Asp Ala  
 100 105 110  
 Glu Asn Lys Leu Asn Asp Val Leu Leu Ile Gln Leu Ser Ser Pro Ala  
 115 120 125  
 Asn Leu Ser Ala Ser Val Ala Thr Val Gln Leu Pro Gln Gln Asp Gln  
 130 135 140  
 Pro Val Pro His Gly Thr Gln Cys Leu Ala Met Gly Trp Gly Arg Val  
 145 150 155 160  
 Gly Ala His Asp Pro Pro Ala Gln Val Leu Gln Glu Leu Asn Val Thr  
 165 170 175  
 Val Val Thr Phe Phe Cys Arg Pro His Asn Ile Cys Thr Phe Val Pro  
 180 185 190  
 Arg Arg Lys Ala Gly Ile Cys Phe Gly Asp Ser Gly Gly Pro Leu Ile  
 195 200 205  
 Cys Asp Gly Ile Ile Gln Gly Ile Asp Ser Phe Val Ile Trp Gly Cys  
 210 215 220  
 Ala Thr Arg Leu Phe Pro Asp Phe Phe Thr Arg Val Ala Leu Tyr Val  
 Page 518

69014-PRO2.ST25.txt

225

230

235

240

Asp Trp Ile Arg Ser Thr Leu Arg Arg Val Glu Ala Lys Gly Arg Pro  
245 250 255

<210> 559

<211> 71

<212> PRT

<213> Mus musculus

**<400> 559**

Met Ala Ser Asn Asn Thr Ala Ser Ile Ala Gln Ala Arg Lys Leu Val  
1 5 10 15

Glu Gln Leu Lys Met Glu Ala Asn Ile Asp Arg Ile Lys Val Ser Lys  
20 25 30

Ala Ala Ala Asp Leu Met Ala Tyr Cys Glu Ala His Ala Lys Glu Asp  
35 40 45

Pro Leu Leu Thr Pro Val Pro Ala Ser Glu Asn Pro Phe Arg Glu Lys  
50 55 60

Lys Phe Phe Cys Ala Ile Leu  
65 70

**<210> 560**

<211> 896

<212> PRT

<213> Mus musculus

<400> 560

Met Asp Gln Gln Met Ala Leu Thr Trp Gly Leu Cys Tyr Met Ala Leu  
1 5 10 15Val Ala Leu Cys Trp Gly His Gly Val Thr Glu Ala Glu Glu Thr Val  
20 25 30

Pro Leu Lys Thr Leu Gln Cys Tyr Asn Asp Tyr Thr Asn His Ile Ile  
35 40 45

Cys Ser Trp Ala Asp Thr Glu Asp Ala Gln Gly Leu Ile Asn Met Thr  
 50 55 60  
 Leu Tyr His Gln Leu Glu Lys Lys Gln Pro Val Ser Cys Glu Leu Ser  
 65 70 75 80  
 Glu Lys Leu Met Trp Ser Glu Cys Pro Ser Ser His Arg Cys Val Pro  
 85 90 95  
 Arg Arg Cys Val Ile Pro Tyr Thr Arg Phe Ser Ile Thr Asn Glu Asp  
 100 105 110  
 Tyr Tyr Ser Phe Arg Pro Asp Ser Asp Leu Gly Ile Gln Leu Met Val  
 115 120 125  
 Pro Leu Ala Gln Asn Val Gln Pro Pro Leu Pro Lys Asn Val Ser Ile  
 130 135 140  
 Ser Ser Ser Glu Asp Arg Phe Leu Leu Glu Trp Ser Val Ser Leu Gly  
 145 150 155 160  
 Asp Ala Gln Val Ser Trp Leu Ser Ser Lys Asp Ile Glu Phe Glu Val  
 165 170 175  
 Ala Tyr Lys Arg Leu Gln Asp Ser Trp Glu Asp Ala Tyr Ser Leu His  
 180 185 190  
 Thr Ser Lys Phe Gln Val Asn Phe Glu Pro Lys Leu Phe Leu Pro Asn  
 195 200 205  
 Ser Ile Tyr Ala Pro Arg Val Arg Thr Arg Leu Tyr Pro Gly Ser Ser  
 210 215 220  
 Leu Ser Gly Arg Pro Ser Arg Trp Ser Pro Glu Ala His Trp Asp Ser  
 225 230 235 240  
 Gln Pro Gly Asp Lys Ala Gln Pro Gln Asn Leu Gln Cys Phe Phe Asp  
 245 250 255  
 Gly Ile Gln Ser Leu His Cys Ser Trp Glu Val Trp Thr Gln Thr Thr  
 260 265 270  
 Gly Ser Val Ser Phe Gly Leu Phe Tyr Arg Pro Ser Pro Val Ala Pro  
 275 280 285  
 Glu Glu Lys Cys Ser Pro Val Val Lys Glu Pro Pro Gly Ala Ser Val  
 290 295 300

## 69014-PRO2.ST25.txt

Tyr Thr Arg Tyr His Cys Ser Leu Pro Val Pro Glu Pro Ser Ala His  
 305 310 315 320  
 Ser Gln Tyr Thr Val Ser Val Lys His Leu Glu Gln Gly Lys Phe Ile  
 325 330 335  
 Met Ser Tyr Asn His Ile Gln Met Glu Pro Pro Thr Leu Asn Leu Thr  
 340 345 350  
 Lys Asn Arg Asp Ser Tyr Ser Leu His Trp Glu Thr Gln Lys Met Ala  
 355 360 365  
 Tyr Ser Phe Ile Glu His Thr Phe Gln Val Gln Tyr Lys Lys Lys Ser  
 370 375 380  
 Asp Ser Trp Glu Asp Ser Lys Thr Glu Asn Leu Asp Arg Ala His Ser  
 385 390 395 400  
 Met Asp Leu Ser Gln Leu Glu Pro Asp Thr Ser Tyr Cys Ala Arg Val  
 405 410 415  
 Arg Val Lys Pro Ile Ser Asn Tyr Asp Gly Ile Trp Ser Lys Trp Ser  
 420 425 430  
 Glu Glu Tyr Thr Trp Lys Thr Asp Trp Val Met Pro Thr Leu Trp Ile  
 435 440 445  
 Val Leu Ile Leu Val Phe Leu Ile Leu Thr Leu Leu Leu Ile Leu Arg  
 450 455 460  
 Phe Gly Cys Val Ser Val Tyr Arg Thr Tyr Arg Lys Trp Lys Glu Lys  
 465 470 475 480  
 Ile Pro Asn Pro Ser Lys Ser Leu Leu Phe Gln Asp Gly Gly Lys Gly  
 485 490 495  
 Leu Trp Pro Pro Gly Ser Met Ala Ala Phe Ala Thr Lys Asn Pro Ala  
 500 505 510  
 Leu Gln Gly Pro Gln Ser Arg Leu Leu Ala Glu Gln Gln Gly Glu Ser  
 515 520 525  
 Tyr Ala His Leu Glu Asp Asn Asn Val Ser Pro Leu Thr Ile Glu Asp  
 530 535 540  
 Pro Asn Ile Ile Arg Val Pro Pro Ser Gly Pro Asp Thr Thr Pro Ala  
 545 550 555 560

Ala Ser Ser Glu Ser Thr Glu Gln Leu Pro Asn Val Gln Val Glu Gly  
 565 570 575  
 Pro Thr Pro Asn Arg Pro Arg Lys Gln Leu Pro Ser Phe Asp Phe Asn  
 580 585 590  
 Gly Pro Tyr Leu Gly Pro Pro Gln Ser His Ser Leu Pro Asp Leu Pro  
 595 600 605  
 Asp Gln Leu Gly Ser Pro Gln Val Gly Gly Ser Leu Lys Pro Ala Leu  
 610 615 620  
 Pro Gly Ser Leu Glu Tyr Met Cys Leu Ala Pro Gly Gly Gln Val Gln  
 625 630 635 640  
 Leu Val Pro Leu Ser Gln Val Met Gly Gln Gly Gln Ala Met Asp Val  
 645 650 655  
 Gln Cys Gly Ser Ser Leu Glu Thr Ser Gly Ser Pro Ser Val Glu Pro  
 660 665 670  
 Lys Glu Asn Pro Pro Val Glu Leu Ser Met Glu Glu Gln Glu Ala Arg  
 675 680 685  
 Asp Asn Pro Val Thr Leu Pro Ile Ser Ser Gly Gly Pro Glu Gly Ser  
 690 695 700  
 Met Met Ala Ser Asp Tyr Val Thr Pro Gly Asp Pro Val Leu Thr Leu  
 705 710 715 720  
 Pro Thr Gly Pro Leu Ser Thr Ser Leu Gly Pro Ser Leu Gly Leu Pro  
 725 730 735  
 Ser Ala Gln Ser Pro Ser Leu Cys Leu Lys Leu Pro Arg Val Pro Ser  
 740 745 750  
 Gly Ser Pro Ala Leu Gly Pro Pro Gly Phe Glu Asp Tyr Val Glu Leu  
 755 760 765  
 Pro Pro Ser Val Ser Gln Ala Ala Lys Ser Pro Pro Gly His Pro Ala  
 770 775 780  
 Pro Pro Val Ala Ser Ser Pro Thr Val Ile Pro Gly Glu Pro Arg Glu  
 785 790 795 800  
 Glu Val Gly Pro Ala Ser Pro His Pro Glu Gly Leu Leu Val Leu Gln  
 Page 522

805

810

815

Gln Val Gly Asp Tyr Cys Phe Leu Pro Gly Leu Gly Pro Gly Ser Leu  
                   820                  825                  830

Ser Pro His Ser Lys Pro Pro Ser Pro Ser Leu Cys Ser Glu Thr Glu  
           835                  840                  845

Asp Leu Val Gln Asp Leu Ser Val Lys Lys Phe Pro Tyr Gln Pro Met  
       850                  855                  860

Pro Gln Ala Pro Ala Ile Gln Phe Phe Lys Ser Leu Lys His Gln Asp  
   865                  870                  875                  880

Tyr Leu Ser Leu Pro Pro Trp Asp Asn Ser Gln Ser Gly Lys Val Cys  
                   885                  890                  895

&lt;210&gt; 561

&lt;211&gt; 897

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 561

Met Val Leu Ala Gln Gly Leu Leu Ser Met Ala Leu Leu Ala Leu Cys  
   1                  5                  10                  15

Trp Glu Arg Ser Leu Ala Gly Ala Glu Glu Thr Ile Pro Leu Gln Thr  
           20                  25                  30

Leu Arg Cys Tyr Asn Asp Tyr Thr Ser His Ile Thr Cys Arg Trp Ala  
           35                  40                  45

Asp Thr Gln Asp Ala Gln Arg Leu Val Asn Val Thr Leu Ile Arg Arg  
       50                  55                  60

Val Asn Glu Asp Leu Leu Glu Pro Val Ser Cys Asp Leu Ser Asp Asp  
   65                  70                  75                  80

Met Pro Trp Ser Ala Cys Pro His Pro Arg Cys Val Pro Arg Arg Cys  
           85                  90                  95

Val Ile Pro Cys Gln Ser Phe Val Val Thr Asp Val Asp Tyr Phe Ser  
           100                  105                  110

Phe Gln Pro Asp Arg Pro Leu Gly Thr Arg Leu Thr Val Thr Leu Thr  
 115 120 125  
 Gln His Val Gln Pro Pro Glu Pro Arg Asp Leu Gln Ile Ser Thr Asp  
 130 135 140  
 Gln Asp His Phe Leu Leu Thr Trp Ser Val Ala Leu Gly Ser Pro Gln  
 145 150 155 160  
 Ser His Trp Leu Ser Pro Gly Asp Leu Glu Phe Glu Val Val Tyr Lys  
 165 170 175  
 Arg Leu Gln Asp Ser Trp Glu Asp Ala Ala Ile Leu Leu Ser Asn Thr  
 180 185 190  
 Ser Gln Ala Thr Leu Gly Pro Glu His Leu Met Pro Ser Ser Thr Tyr  
 195 200 205  
 Val Ala Arg Val Arg Thr Arg Leu Ala Pro Gly Ser Arg Leu Ser Gly  
 210 215 220  
 Arg Pro Ser Lys Trp Ser Pro Glu Val Cys Trp Asp Ser Gln Pro Gly  
 225 230 235 240  
 Asp Glu Ala Gln Pro Gln Asn Leu Glu Cys Phe Phe Asp Gly Ala Ala  
 245 250 255  
 Val Leu Ser Cys Ser Trp Glu Val Arg Lys Glu Val Ala Ser Ser Val  
 260 265 270  
 Ser Phe Gly Leu Phe Tyr Lys Pro Ser Pro Asp Ala Gly Glu Glu Glu  
 275 280 285  
 Cys Ser Pro Val Leu Arg Glu Gly Leu Gly Ser Leu His Thr Arg His  
 290 295 300  
 His Cys Gln Ile Pro Val Pro Asp Pro Ala Thr His Gly Gln Tyr Ile  
 305 310 315 320  
 Val Ser Val Gln Pro Arg Arg Ala Glu Lys His Ile Lys Ser Ser Val  
 325 330 335  
 Asn Ile Gln Met Ala Pro Pro Ser Leu Asn Val Thr Lys Asp Gly Asp  
 340 345 350  
 Ser Tyr Ser Leu Arg Trp Glu Thr Met Lys Met Arg Tyr Glu His Ile  
 355 360 365



69014-PRO2.ST25.txt

Asp His Thr Phe Glu Ile Gln Tyr Arg Lys Asp Thr Ala Thr Trp Lys  
 370 375 380  
 Asp Ser Lys Thr Glu Thr Leu Gln Asn Ala His Ser Met Ala Leu Pro  
 385 390 395 400  
 Ala Leu Glu Pro Ser Thr Arg Tyr Trp Ala Arg Val Arg Val Arg Thr  
 405 410 415  
 Ser Arg Thr Gly Tyr Asn Gly Ile Trp Ser Glu Trp Ser Glu Ala Arg  
 420 425 430  
 Ser Trp Asp Thr Glu Ser Val Leu Pro Met Trp Val Leu Ala Leu Ile  
 435 440 445  
 Val Ile Phe Leu Thr Ile Ala Val Leu Leu Ala Leu Arg Phe Cys Gly  
 450 455 460  
 Ile Tyr Gly Tyr Arg Leu Arg Arg Lys Trp Glu Glu Lys Ile Pro Asn  
 465 470 475 480  
 Pro Ser Lys Ser His Leu Phe Gln Asn Gly Ser Ala Glu Leu Trp Pro  
 485 490 495  
 Pro Gly Ser Met Ser Ala Phe Thr Ser Gly Ser Pro Pro His Gln Gly  
 500 505 510  
 Pro Trp Gly Ser Arg Phe Pro Glu Leu Glu Gly Val Phe Pro Val Gly  
 515 520 525  
 Phe Gly Asp Ser Glu Val Ser Pro Leu Thr Ile Glu Asp Pro Lys His  
 530 535 540  
 Val Cys Asp Pro Pro Ser Gly Pro Asp Thr Thr Pro Ala Ala Ser Asp  
 545 550 555 560  
 Leu Pro Thr Glu Gln Pro Pro Ser Pro Gln Pro Gly Pro Pro Ala Ala  
 565 570 575  
 Ser His Thr Pro Glu Lys Gln Ala Ser Ser Phe Asp Phe Asn Gly Pro  
 580 585 590  
 Tyr Leu Gly Pro Pro His Ser Arg Ser Leu Pro Asp Ile Leu Gly Gln  
 595 600 605  
 Pro Glu Pro Pro Gln Glu Gly Gly Ser Gln Lys Ser Pro Pro Pro Gly  
 610 615 620

Ser Leu Glu Tyr Leu Cys Leu Pro Ala Gly Gly Gln Val Gln Leu Val  
625 630 635 640

Pro Leu Ala Gln Ala Met Gly Pro Gly Gln Ala Val Glu Val Glu Arg  
645 650 655

Arg Pro Ser Gln Gly Ala Ala Gly Ser Pro Ser Leu Glu Ser Gly Gly  
660 665 670

Gly Pro Ala Pro Pro Ala Leu Gly Pro Arg Val Gly Gly Gln Asp Gln  
675 680 685

Lys Asp Ser Pro Val Ala Ile Pro Met Ser Ser Gly Asp Thr Glu Asp  
690 695 700

Pro Gly Val Ala Ser Gly Tyr Val Ser Ser Ala Asp Leu Val Phe Thr  
705 710 715 720

Pro Asn Ser Gly Ala Ser Ser Val Ser Leu Val Pro Ser Leu Gly Leu  
725 730 735

Pro Ser Asp Gln Thr Pro Ser Leu Cys Pro Gly Leu Ala Ser Gly Pro  
740 745 750

Pro Gly Ala Pro Gly Pro Val Lys Ser Gly Phe Glu Gly Tyr Val Glu  
755 760 765

Leu Pro Pro Ile Glu Gly Arg Ser Pro Arg Ser Pro Arg Asn Asn Pro  
770 775 780

Val Pro Pro Glu Ala Lys Ser Pro Val Leu Asn Pro Gly Glu Arg Pro  
785 790 795 800

Ala Asp Val Ser Pro Thr Ser Pro Gln Pro Glu Gly Leu Leu Val Leu  
805 810 815

Gln Gln Val Gly Asp Tyr Cys Phe Leu Pro Gly Leu Gly Pro Gly Pro  
820 825 830

Leu Ser Leu Arg Ser Lys Pro Ser Ser Pro Gly Pro Gly Pro Glu Ile  
835 840 845

Lys Asn Leu Asp Gln Ala Phe Gln Val Lys Lys Pro Pro Gly Gln Ala  
850 855 860

Val Pro Gln Val Pro Val Ile Gln Leu Phe Lys Ala Leu Lys Gln Gln  
Page 526

865 870 875 880

Asp Tyr Leu Ser Leu Pro Pro Trp Glu Val Asn Lys Pro Gly Glu Val  
885 890 895

Cys

<210> 562

<211> 1343

<212> PRT

<213> Mus musculus

<400> 562

Met Gly Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Leu Leu Asp  
1 5 10 15

Thr Glu Val Phe Val Thr Gly Gln Thr Pro Thr Pro Ser Asp Glu Leu  
20 25 30

Ser Thr Thr Glu Asn Ala Leu Leu Leu Pro Gln Ser Asp Pro Leu Pro  
35 40 45

Ala Arg Thr Thr Glu Ser Thr Pro Pro Ser Ile Ser Glu Arg Gly Asn  
50 55 60

Gly Ser Ser Glu Thr Thr Tyr His Pro Gly Val Leu Ser Thr Leu Leu  
65 70 75 80

Pro His Leu Ser Pro Gln Pro Asp Ser Gln Thr Pro Ser Ala Gly Gly  
85 90 95

Ala Asp Thr Gln Thr Phe Ser Ser Gln Ala Asp Asn Pro Thr Leu Thr  
100 105 110

Pro Ala Pro Gly Gly Gly Thr Asp Pro Pro Gly Val Pro Gly Glu Arg  
115 120 125

Thr Val Pro Gly Thr Ile Pro Ala Asp Thr Ala Phe Pro Val Asp Thr  
130 135 140

Pro Ser Leu Ala Arg Asn Ser Ser Ala Ala Ser Pro Thr His Thr Ser  
145 150 155 160

Asn Val Ser Thr Thr Asp Ile Ser Ser Gly Ala Ser Leu Thr Thr Leu  
 165 170 175  
 Thr Pro Ser Thr Leu Gly Leu Ala Ser Thr Asp Pro Pro Ser Thr Thr  
 180 185 190  
 Ile Ala Thr Thr Thr Lys Gln Thr Cys Ala Ala Met Phe Gly Asn Ile  
 195 200 205  
 Thr Val Asn Tyr Thr Tyr Glu Ser Ser Asn Gln Thr Phe Lys Ala Asp  
 210 215 220  
 Leu Lys Asp Val Gln Asn Ala Lys Cys Gly Asn Glu Asp Cys Glu Asn  
 225 230 235 240  
 Val Leu Asn Asn Leu Glu Glu Cys Ser Gln Ile Lys Asn Ile Ser Val  
 245 250 255  
 Ser Asn Asp Ser Cys Ala Pro Ala Thr Thr Ile Asp Leu Tyr Val Pro  
 260 265 270  
 Pro Gly Thr Asp Lys Phe Ser Leu His Asp Cys Thr Pro Lys Glu Lys  
 275 280 285  
 Ala Asn Thr Ser Ile Cys Leu Glu Trp Lys Thr Lys Asn Leu Asp Phe  
 290 295 300  
 Arg Lys Cys Asn Ser Asp Asn Ile Ser Tyr Val Leu His Cys Glu Pro  
 305 310 315 320  
 Glu Asn Asn Thr Lys Cys Ile Arg Arg Asn Thr Phe Ile Pro Glu Arg  
 325 330 335  
 Cys Gln Leu Asp Asn Leu Arg Ala Gln Thr Asn Tyr Thr Cys Val Ala  
 340 345 350  
 Glu Ile Leu Tyr Arg Gly Val Lys Leu Val Lys Asn Val Ile Asn Val  
 355 360 365  
 Gln Thr Asp Leu Gly Ile Pro Glu Thr Pro Lys Pro Ser Cys Gly Asp  
 370 375 380  
 Pro Ala Ala Arg Lys Thr Leu Val Ser Trp Pro Glu Pro Val Ser Lys  
 385 390 395 400  
 Pro Glu Ser Ala Ser Lys Pro His Gly Tyr Val Leu Cys Tyr Lys Asn  
 405 410 415

Asn Ser Glu Lys Cys Lys Ser Leu Pro Asn Asn Val Thr Ser Phe Glu  
                   420                  425                  430  
 Val Glu Ser Leu Lys Pro Tyr Lys Tyr Tyr Glu Val Ser Leu Leu Ala  
                   435                  440                  445  
 Tyr Val Asn Gly Lys Ile Gln Arg Asn Gly Thr Ala Glu Lys Cys Asn  
                   450                  455                  460  
 Phe His Thr Lys Ala Asp Arg Pro Asp Lys Val Asn Gly Met Lys Thr  
                   465                  470                  475                  480  
 Ser Arg Pro Thr Asp Asn Ser Ile Asn Val Thr Cys Gly Pro Pro Tyr  
                   485                  490                  495  
 Glu Thr Asn Gly Pro Lys Thr Phe Tyr Ile Leu Val Val Arg Ser Gly  
                   500                  505                  510  
 Gly Ser Phe Val Thr Lys Tyr Asn Lys Thr Asn Cys Gln Phe Tyr Val  
                   515                  520                  525  
 Asp Asn Leu Tyr Tyr Ser Thr Asp Tyr Glu Phe Leu Val Ser Phe His  
                   530                  535                  540  
 Asn Gly Val Tyr Glu Gly Asp Ser Val Ile Arg Asn Glu Ser Thr Asn  
                   545                  550                  555                  560  
 Phe Asn Ala Lys Ala Leu Ile Ile Phe Leu Val Phe Leu Ile Ile Val  
                   565                  570  
 Thr Ser Ile Ala Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu Arg  
                   580                  585                  590  
 Lys Lys Arg Ser Ser Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg  
                   595                  600                  605  
 Asp Asp Glu Lys Gln Leu Met Asp Val Glu Pro Ile His Ser Asp Ile  
                   610                  615                  620  
 Leu Leu Glu Thr Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe  
                   625                  630                  635                  640  
 Leu Ala Glu Phe Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile  
                   645                  650                  655  
 Lys Asp Ala Arg Lys Pro His Asn Gln Asn Lys Asn Arg Tyr Val Asp  
                   660                  665                  670

Ile Leu Pro Tyr Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly  
 675 680 685  
 Asp Ala Gly Ser Thr Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Gly  
 690 695 700  
 Phe Lys Glu Pro Arg Lys Tyr Ile Ala Ala Gln Gly Thr Arg Ala Pro  
 705 710 715 720  
 Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp Arg Met Ile Trp Gly  
 725 730 735  
 Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys Glu Glu Gly Asn  
 740 745 750  
 Arg Asn Arg Asn Lys Cys Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met  
 755 760 765  
 Glu Glu Gly Thr Arg Ala Phe Lys Asp Ile Val Val Thr Ile Asn Asp  
 770 775 780  
 His Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Val Ala His  
 785 790 795 800  
 Ala His Lys Lys Lys Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His  
 805 810 815  
 Ile Gln Phe Thr Ser Trp Pro Asp His Gly Val Pro Glu Asp Pro His  
 820 825 830  
 Leu Leu Leu Lys Leu Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe  
 835 840 845  
 Ser Gly Pro Ile Val Val His Cys Ser Thr Ala Val Leu Val Ala Gly  
 850 855 860  
 Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile Asp Ala Met Leu Glu Gly  
 865 870 875 880  
 Leu Glu Ala Glu Gly Lys Val Asp Val Tyr Gly Tyr Val Val Lys Leu  
 885 890 895  
 Arg Arg Gln Arg Cys Leu Met Val Gln Val Glu Val Glu Ala Gln Tyr  
 900 905 910  
 Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln Phe  
 Page 530

915

920

925

Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Ser Cys Leu His Asn  
 930 935 940

Met Lys Lys Arg Asp Pro Pro Ser Asp Pro Ser Pro Leu Glu Ala Glu  
 945 950 955 960

Tyr Gln Tyr Gln Arg Leu Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr  
 965 970 975

Gln His Ile Gly Asn Gln Glu Glu Asn Lys Lys Lys Asn Arg Asn Ser  
 980 985 990

Asn Val Val Pro Tyr Asp Phe Asn Arg Val Pro Leu Lys His Glu Leu  
 995 1000 1005

Glu Met Ser Lys Glu Ser Glu Pro Glu Ser Asp Glu Ser Ser Asp  
 1010 1015 1020

Asp Asp Ser Asp Ser Glu Glu Thr Ser Lys Tyr Ile Asn Ala Ser  
 1025 1030 1035

Phe Val Met Ser Tyr Trp Ser Tyr Trp Lys Pro Glu Met Met Ile  
 1040 1045 1050

Ala Ala Gln Gly Pro Leu Lys Glu Thr Ile Gly Asp Phe Trp Gln  
 1055 1060 1065

Met Ile Phe Gln Arg Lys Val Lys Val Ile Val Met Leu Thr Glu  
 1070 1075 1080

Leu Val Asn Gly Asp Gln Asp Gln Glu Val Cys Glu Val Cys Ala  
 1085 1090 1095

Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp Met Glu Val  
 1100 1105 1110

Glu Met Lys Asp Thr Asn Arg Ala Ser Ala Tyr Thr Leu Arg Thr  
 1115 1120 1125

Phe Glu Leu Arg His Ser Lys Ser Lys Arg Lys Arg Lys Glu Pro  
 1130 1135 1140

Arg Thr Val Tyr Gln Tyr Gln Cys Thr Thr Trp Lys Gly Glu Glu  
 1145 1150 1155

Leu Pro Ala Glu Pro Lys Asp Leu Val Ser Met Ile Gln Asp Leu  
 1160 1165 1170

Lys Gln Lys Leu Pro Lys Ala Ser Pro Glu Gly Met Lys Tyr His  
 1175 1180 1185

Lys His Ala Ser Ile Leu Val His Cys Ser Thr Ala Glu Met Glu  
 1190 1195 1200

Asp Gly Ser Gln Gln Thr Gly Leu Phe Cys Ala Leu Phe Asn Leu  
 1205 1210 1215

Leu Glu Ser Ala Glu Thr Glu Asp Val Val Asp Val Phe Gln Val  
 1220 1225 1230

Val Lys Ser Leu Arg Lys Ala Arg Pro Gly Val Val Cys Ser Tyr  
 1235 1240 1245

Ser Tyr Glu Gln Tyr Glu Gln Tyr Gln Phe Leu Tyr Asp Ile Ile  
 1250 1255 1260

Ala Ser Ile Tyr Pro Ala Gln Asn Gly Gln Val Lys Lys Thr Asn  
 1265 1270 1275

Ser Gln Asp Lys Ile Glu Phe His Asn Glu Val Asp Gly Gly Lys  
 1280 1285 1290

Gln Asp Ala Asn Cys Val Arg Pro Asp Gly Pro Leu Asn Lys Ala  
 1295 1300 1305

Gln Glu Asp Ser Arg Gly Val Gly Thr Pro Glu Pro Thr Asn Ser  
 1310 1315 1320

Ala Glu Glu Pro Glu His Ala Ala Asn Gly Ser Ala Ser Pro Ala  
 1325 1330 1335

Pro Thr Gln Ser Ser  
 1340

<210> 563

<211> 1304

<212> PRT

<213> Homo sapiens

<400> 563



## 69014-PRO2.ST25.txt

Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe Leu Asp  
 1 5 10 15  
 Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro Thr Gly  
 20 25 30  
 Leu Thr Thr Ala Lys Met Pro Ser Val Pro Leu Ser Ser Asp Pro Leu  
 35 40 45  
 Pro Thr His Thr Thr Ala Phe Ser Pro Ala Ser Thr Phe Glu Arg Glu  
 50 55 60  
 Asn Asp Phe Ser Glu Thr Thr Thr Ser Leu Ser Pro Asp Asn Thr Ser  
 65 70 75 80  
 Thr Gln Val Ser Pro Asp Ser Leu Asp Asn Ala Ser Ala Phe Asn Thr  
 85 90 95  
 Thr Gly Val Ser Ser Val Gln Thr Pro His Leu Pro Thr His Ala Asp  
 100 105 110  
 Ser Gln Thr Pro Ser Ala Gly Thr Asp Thr Gln Thr Phe Ser Gly Ser  
 115 120 125  
 Ala Ala Asn Ala Lys Leu Asn Pro Thr Pro Gly Ser Asn Ala Ile Ser  
 130 135 140  
 Asp Val Pro Gly Glu Arg Ser Thr Ala Ser Thr Phe Pro Thr Asp Pro  
 145 150 155 160  
 Val Ser Pro Leu Thr Thr Thr Leu Ser Leu Ala His His Ser Ser Ala  
 165 170 175  
 Ala Leu Pro Ala Arg Thr Ser Asn Thr Thr Ile Thr Ala Asn Thr Ser  
 180 185 190  
 Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser Gly  
 195 200 205  
 Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys Pro  
 210 215 220  
 Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr Asn  
 225 230 235 240  
 Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn Val  
 245 250 255

Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu Thr  
 260 265 270  
 Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr Ala  
 275 280 285  
 Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys Phe  
 290 295 300  
 Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile Cys  
 305 310 315 320  
 Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn Ile  
 325 330 335  
 Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu Ile  
 340 345 350  
 Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser Glu  
 355 360 365  
 Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile Lys  
 370 375 380  
 Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg Ser  
 385 390 395 400  
 Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg Ser  
 405 410 415  
 Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp Cys  
 420 425 430  
 Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu Lys  
 435 440 445  
 Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala Lys  
 450 455 460  
 Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys Ser  
 465 470 475 480  
 Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser Asp  
 485 490 495  
 Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly Pro  
 Page 534

500

505

510

His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val Arg  
 515 520 525  
 Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln Tyr  
 530 535 540  
 Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr Pro  
 545 550 555 560  
 Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys Ala  
 565 570 575  
 Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala Leu  
 580 585 590  
 Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser Cys  
 595 600 605  
 Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys Gln  
 610 615 620  
 Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr Tyr  
 625 630 635 640  
 Lys Arg Lys Ile Ala Asp Glu Gly Arg Pro Phe Leu Ala Glu Phe Gln  
 645 650 655  
 Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg Lys  
 660 665 670  
 Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr Asp  
 675 680 685  
 Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser Asn  
 690 695 700  
 Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys Tyr  
 705 710 715 720  
 Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp Arg  
 725 730 735  
 Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg Cys  
 740 745 750

Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met Glu  
 755 760 765  
 Glu Gly Thr Arg Ala Phe Gly Asp Val Val Val Lys Ile Asn Gln His  
 770 775 780  
 Lys Arg Cys Pro Asp Tyr Ile Ile Gln Lys Leu Asn Ile Val Asn Lys  
 785 790 795 800  
 Lys Glu Lys Ala Thr Gly Arg Glu Val Thr His Ile Gln Phe Thr Ser  
 805 810 815  
 Trp Pro Asp His Gly Val Pro Glu Asp Pro His Leu Leu Leu Lys Leu  
 820 825 830  
 Arg Arg Arg Val Asn Ala Phe Ser Asn Phe Phe Ser Gly Pro Ile Val  
 835 840 845  
 Val His Cys Ser Ala Gly Val Gly Arg Thr Gly Thr Tyr Ile Gly Ile  
 850 855 860  
 Asp Ala Met Leu Glu Gly Leu Glu Ala Glu Asn Lys Val Asp Val Tyr  
 865 870 875 880  
 Gly Tyr Val Val Lys Leu Arg Arg Gln Arg Cys Leu Met Val Gln Val  
 885 890 895  
 Glu Ala Gln Tyr Ile Leu Ile His Gln Ala Leu Val Glu Tyr Asn Gln  
 900 905 910  
 Phe Gly Glu Thr Glu Val Asn Leu Ser Glu Leu His Pro Tyr Leu His  
 915 920 925  
 Asn Met Lys Lys Arg Asp Pro Pro Ser Glu Pro Ser Pro Leu Glu Ala  
 930 935 940  
 Glu Phe Gln Arg Leu Pro Ser Tyr Arg Ser Trp Arg Thr Gln His Ile  
 945 950 955 960  
 Gly Asn Gln Glu Glu Asn Lys Ser Lys Asn Arg Asn Ser Asn Val Ile  
 965 970 975  
 Pro Tyr Asp Tyr Asn Arg Val Pro Leu Lys His Glu Leu Glu Met Ser  
 980 985 990  
 Lys Glu Ser Glu His Asp Ser Asp Glu Ser Ser Asp Asp Asp Ser Asp  
 995 1000 1005

## 69014-PRO2.ST25.txt

Ser Glu Glu Pro Ser Lys Tyr Ile Asn Ala Ser Phe Ile Met Ser  
 1010 1015 1020  
 Tyr Trp Lys Pro Glu Val Met Ile Ala Ala Gln Gly Pro Leu Lys  
 1025 1030 1035  
 Glu Thr Ile Gly Asp Phe Trp Gln Met Ile Phe Gln Arg Lys Val  
 1040 1045 1050  
 Lys Val Ile Val Met Leu Thr Glu Leu Lys His Gly Asp Gln Glu  
 1055 1060 1065  
 Ile Cys Ala Gln Tyr Trp Gly Glu Gly Lys Gln Thr Tyr Gly Asp  
 1070 1075 1080  
 Ile Glu Val Asp Leu Lys Asp Thr Asp Lys Ser Ser Thr Tyr Thr  
 1085 1090 1095  
 Leu Arg Val Phe Glu Leu Arg His Ser Lys Arg Lys Asp Ser Arg  
 1100 1105 1110  
 Thr Val Tyr Gln Tyr Gln Tyr Thr Asn Trp Ser Val Glu Gln Leu  
 1115 1120 1125  
 Pro Ala Glu Pro Lys Glu Leu Ile Ser Met Ile Gln Val Val Lys  
 1130 1135 1140  
 Gln Lys Leu Pro Gln Lys Asn Ser Ser Glu Gly Asn Lys His His  
 1145 1150 1155  
 Lys Ser Thr Pro Leu Leu Ile His Cys Arg Asp Gly Ser Gln Gln  
 1160 1165 1170  
 Thr Gly Ile Phe Cys Ala Leu Leu Asn Leu Leu Glu Ser Ala Glu  
 1175 1180 1185  
 Thr Glu Glu Val Val Asp Ile Phe Gln Val Val Lys Ala Leu Arg  
 1190 1195 1200  
 Lys Ala Arg Leu Gly Met Val Ser Thr Phe Glu Gln Tyr Gln Phe  
 1205 1210 1215  
 Leu Tyr Asp Val Ile Ala Ser Thr Tyr Pro Ala Gln Asn Gly Gln  
 1220 1225 1230  
 Val Lys Lys Asn Asn His Gln Glu Asp Lys Ile Glu Phe Asp Asn  
 1235 1240 1245

Glu Val Asp Lys Val Lys Gln Asp Ala Asn Cys Val Asn Pro Leu  
 1250 1255 1260

Gly Ala Pro Glu Lys Leu Pro Glu Ala Lys Glu Gln Ala Glu Gly  
 1265 1270 1275

Ser Glu Pro Thr Ser Gly Thr Glu Gly Pro Glu His Ser Val Asn  
 1280 1285 1290

Gly Pro Ala Ser Pro Ala Leu Asn Gln Gly Ser  
 1295 1300

<210> 564

<211> 437

<212> PRT

<213> Mus musculus

<400> 564

Met Leu Leu Leu Leu Ala Arg Cys Phe Leu Val Ile Leu Ala Ser Ser  
 1 5 10 15

Leu Leu Val Cys Pro Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly  
 20 25 30

Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe  
 35 40 45

Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu  
 50 55 60

Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn  
 65 70 75 80

Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp  
 85 90 95

Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile  
 100 105 110

Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly  
 115 120 125

Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly  
 Page 538

130

135

140

Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly  
 145 150 155 160  
 Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr  
 165 170 175  
 Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val  
 180 185 190  
 Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu  
 195 200 205  
 Glu Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Arg Pro Gly Asp Arg  
 210 215 220  
 Val Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu  
 225 230 235 240  
 Thr Phe Leu Asp Arg Asp Glu Gly Ala Lys Lys Val Phe Tyr Val Ile  
 245 250 255  
 Glu Thr Leu Glu Pro Arg Glu Arg Leu Leu Leu Thr Ala Ala His Leu  
 260 265 270  
 Leu Phe Val Ala Pro His Asn Asp Ser Gly Pro Thr Pro Gly Pro Ser  
 275 280 285  
 Ala Leu Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val  
 290 295 300  
 Ala Glu Arg Gly Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser  
 305 310 315 320  
 Val Thr Leu Arg Glu Glu Glu Ala Gly Ala Tyr Ala Pro Leu Thr Ala  
 325 330 335  
 His Gly Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val  
 340 345 350  
 Ile Glu Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu  
 355 360 365  
 Ala His Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Gly Gly  
 370 375 380

Gly Gly Gly Ser Ile Pro Ala Ala Gln Ser Ala Thr Glu Ala Arg Gly  
 385 390 395 400

Ala Glu Pro Thr Ala Gly Ile His Trp Tyr Ser Gln Leu Leu Tyr His  
 405 410 415

Ile Gly Thr Trp Leu Leu Asp Ser Glu Thr Met His Pro Leu Gly Met  
 420 425 430

Ala Val Lys Ser Ser  
 435

<210> 565

<211> 462

<212> PRT

<213> Homo sapiens

<400> 565

Met Leu Leu Leu Ala Arg Cys Leu Leu Leu Val Leu Val Ser Ser Leu  
 1 5 10 15

Leu Val Cys Ser Gly Leu Ala Cys Gly Pro Gly Arg Gly Phe Gly Lys  
 20 25 30

Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys Gln Phe Ile  
 35 40 45

Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg Tyr Glu Gly  
 50 55 60

Lys Ile Ser Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr Pro Asn Tyr  
 65 70 75 80

Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly Ala Asp Arg  
 85 90 95

Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu Ala Ile Ser  
 100 105 110

Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr Glu Gly Trp  
 115 120 125

Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr Glu Gly Arg  
 130 135 140



## 69014-PRO2.ST25.txt

Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys Tyr Gly Met  
 145 150 155 160  
 Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr Glu  
 165 170 175  
 Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn Ser Val Ala  
 180 185 190  
 Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val His Leu Glu  
 195 200 205  
 Gln Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly Asp Arg Val  
 210 215 220  
 Leu Ala Ala Asp Asp Gln Gly Arg Leu Leu Tyr Ser Asp Phe Leu Thr  
 225 230 235 240  
 Phe Leu Asp Arg Asp Asp Gly Ala Lys Lys Val Phe Tyr Val Ile Glu  
 245 250 255  
 Thr Arg Glu Pro Arg Glu Arg Leu Leu Leu Thr Ala Ala His Leu Leu  
 260 265 270  
 Phe Val Ala Pro His Asn Asp Ser Ala Thr Gly Glu Pro Glu Ala Ser  
 275 280 285  
 Ser Gly Ser Gly Pro Pro Ser Gly Gly Ala Leu Gly Pro Arg Ala Leu  
 290 295 300  
 Phe Ala Ser Arg Val Arg Pro Gly Gln Arg Val Tyr Val Val Ala Glu  
 305 310 315 320  
 Arg Asp Gly Asp Arg Arg Leu Leu Pro Ala Ala Val His Ser Val Thr  
 325 330 335  
 Leu Ser Glu Glu Ala Ala Gly Ala Tyr Ala Pro Leu Thr Ala Gln Gly  
 340 345 350  
 Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys Tyr Ala Val Ile Glu  
 355 360 365  
 Glu His Ser Trp Ala His Arg Ala Phe Ala Pro Phe Arg Leu Ala His  
 370 375 380  
 Ala Leu Leu Ala Ala Leu Ala Pro Ala Arg Thr Asp Arg Gly Gly Asp  
 385 390 395 400

Ser Gly Gly Gly Asp Arg Gly Gly Gly Gly Gly Arg Val Ala Leu Thr  
 405 410 415

Ala Pro Gly Ala Ala Asp Ala Pro Gly Ala Gly Ala Thr Ala Gly Ile  
 420 425 430

His Trp Tyr Ser Gln Leu Leu Tyr Gln Ile Gly Thr Trp Leu Leu Asp  
 435 440 445

Ser Glu Ala Leu His Pro Leu Gly Met Ala Val Lys Ser Ser  
 450 455 460

<210> 566

<211> 509

<212> PRT

<213> Mus musculus

<400> 566

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Leu  
 1 5 10 15

Cys Leu Leu Leu Ser Ala Ser Cys Phe Cys Thr Gly Ala Thr Gly Thr  
 20 25 30

Glu Val Lys Val Thr Gln Pro Glu Lys Ser Val Ser Val Ala Ala Gly  
 35 40 45

Asp Ser Thr Ile Leu Asn Cys Thr Val Thr Ser Leu Leu Pro Val Gly  
 50 55 60

Pro Ile Arg Trp Tyr Arg Gly Val Gly Gln Ser Arg Leu Leu Ile Tyr  
 65 70 75 80

Ser Phe Thr Gly Glu His Phe Pro Arg Val Arg Asn Val Ser Asp Thr  
 85 90 95

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Ser Asn Val Thr  
 100 105 110

Pro Glu Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Gln Arg Gly Ser  
 115 120 125

Ser Glu Pro Asp Thr Glu Ile Gln Ser Gly Gly Gly Thr Glu Val Tyr  
 Page 542

130

135

140

Val Leu Ala Lys Pro Ser Pro Pro Glu Val Ser Gly Pro Ala Asp Arg  
 145 150 155 160  
 Gly Ile Pro Asp Gln Lys Val Asn Phe Thr Cys Lys Ser His Gly Phe  
 165 170 175  
 Ser Pro Arg Asn Ile Thr Leu Lys Trp Phe Lys Asp Gly Gln Glu Leu  
 180 185 190  
 His Pro Leu Glu Thr Thr Val Asn Pro Ser Gly Lys Asn Val Ser Tyr  
 195 200 205  
 Asn Ile Ser Ser Thr Val Arg Val Val Leu Asn Ser Met Asp Val Asn  
 210 215 220  
 Ser Lys Val Ile Cys Glu Val Ala His Ile Thr Leu Asp Arg Ser Pro  
 225 230 235 240  
 Leu Arg Gly Ile Ala Asn Leu Ser Asn Phe Ile Arg Val Ser Pro Thr  
 245 250 255  
 Val Lys Val Thr Gln Gln Pro Pro Thr Ser Met Asn Gln Val Asn Leu  
 260 265 270  
 Thr Cys Arg Ala Glu Arg Phe Tyr Pro Glu Asp Leu Gln Leu Ile Trp  
 275 280 285  
 Leu Glu Asn Gly Asn Val Ser Arg Asn Asp Thr Pro Lys Asn Leu Thr  
 290 295 300  
 Lys Asn Thr Asp Gly Thr Tyr Asn Tyr Thr Ser Leu Phe Leu Val Asn  
 305 310 315 320  
 Ser Ser Ala His Arg Glu Asp Val Val Phe Thr Cys Gln Val Lys His  
 325 330 335  
 Asp Gln Gln Pro Ala Ile Thr Arg Asn His Thr Val Leu Gly Leu Ala  
 340 345 350  
 His Ser Ser Asp Gln Gly Ser Met Gln Thr Phe Pro Gly Asn Asn Ala  
 355 360 365  
 Thr His Asn Trp Asn Val Phe Ile Gly Val Gly Val Ala Cys Ala Leu  
 370 375 380

## 69014-PRO2.ST25.txt

Leu Val Val Leu Leu Met Ala Ala Leu Tyr Leu Leu Arg Ile Lys Gln  
 385 390 395 400

Lys Lys Ala Lys Gly Ser Thr Ser Ser Thr Arg Leu His Glu Pro Glu  
 405 410 415

Lys Asn Ala Arg Glu Ile Thr Gln Ile Gln Asp Thr Asn Asp Ile Asn  
 420 425 430

Asp Ile Thr Tyr Ala Asp Leu Asn Leu Pro Lys Glu Lys Lys Pro Ala  
 435 440 445

Pro Arg Ala Pro Glu Pro Asn Asn His Thr Glu Tyr Ala Ser Ile Glu  
 450 455 460

Thr Gly Lys Val Pro Arg Pro Glu Asp Thr Leu Thr Tyr Ala Asp Leu  
 465 470 475 480

Asp Met Val His Leu Asn Arg Ala Gln Pro Ala Pro Lys Pro Glu Pro  
 485 490 495

Ser Phe Ser Glu Tyr Ala Ser Val Gln Val Gln Arg Lys  
 500 505

<210> 567

<211> 504

<212> PRT

<213> Homo sapiens

<400> 567

Met Glu Pro Ala Gly Pro Ala Pro Gly Arg Leu Gly Pro Leu Leu Cys  
 1 5 10 15

Leu Leu Leu Ala Ala Ser Cys Ala Trp Ser Gly Val Ala Gly Glu Glu  
 20 25 30

Glu Leu Gln Val Ile Gln Pro Asp Lys Ser Val Leu Val Ala Ala Gly  
 35 40 45

Glu Thr Ala Thr Leu Arg Cys Thr Ala Thr Ser Leu Ile Pro Val Gly  
 50 55 60

Pro Ile Gln Trp Phe Arg Gly Ala Gly Pro Gly Arg Glu Leu Ile Tyr  
 65 70 75 80

69014-PRO2.ST25.txt

Asn Gln Lys Glu Gly His Phe Pro Arg Val Thr Thr Val Ser Asp Leu  
85 90 95

Thr Lys Arg Asn Asn Met Asp Phe Ser Ile Arg Ile Gly Asn Ile Thr  
100 105 110

Pro Ala Asp Ala Gly Thr Tyr Tyr Cys Val Lys Phe Arg Lys Gly Ser  
115 120 125

Pro Asp Asp Val Glu Phe Lys Ser Gly Ala Gly Thr Glu Leu Ser Val  
130 135 140

Arg Ala Lys Pro Ser Ala Pro Val Val Ser Gly Pro Ala Ala Arg Ala  
145 150 155 160

Thr Pro Gln His Thr Val Ser Phe Thr Cys Glu Ser His Gly Phe Ser  
165 170 175

Pro Arg Asp Ile Thr Leu Lys Trp Phe Lys Asn Gly Asn Glu Leu Ser  
180 185 190

Asp Phe Gln Thr Asn Val Asp Pro Val Gly Glu Ser Val Ser Tyr Ser  
195 200 205

Ile His Ser Thr Ala Lys Val Val Leu Thr Arg Glu Asp Val His Ser  
210 215 220

Gln Val Ile Cys Glu Val Ala His Val Thr Leu Gln Gly Asp Pro Leu  
225 230 235 240

Arg Gly Thr Ala Asn Leu Ser Glu Thr Ile Arg Val Pro Pro Thr Leu  
245 250 255

Glu Val Thr Gln Gln Pro Val Arg Ala Glu Asn Gln Val Asn Val Thr  
260 265 270

Cys Gln Val Arg Lys Phe Tyr Pro Gln Arg Leu Gln Leu Thr Trp Leu  
275 280 285

Glu Asn Gly Asn Val Ser Arg Thr Glu Thr Ala Ser Thr Val Thr Glu  
290 295 300

Asn Lys Asp Gly Thr Tyr Asn Trp Met Ser Trp Leu Leu Val Asn Val  
305 310 315 320

Ser Ala His Arg Asp Asp Val Lys Leu Thr Cys Gln Val Glu His Asp  
325 330 335

Gly Gln Pro Ala Val Ser Lys Ser His Asp Leu Lys Val Ser Ala His  
340 345 350

Pro Lys Glu Gln Gly Ser Asn Thr Ala Ala Glu Asn Thr Gly Ser Asn  
355 360 365

Glu Arg Asn Ile Tyr Ile Val Val Gly Val Val Cys Thr Leu Leu Val  
370 375 380

Ala Leu Leu Met Ala Ala Leu Tyr Leu Val Arg Ile Arg Gln Lys Lys  
385 390 395 400

Ala Gln Gly Ser Thr Ser Ser Thr Arg Leu His Glu Pro Glu Lys Asn  
405 410 415

Ala Arg Glu Ile Thr Gln Asp Thr Asn Asp Ile Thr Tyr Ala Asp Leu  
420 425 430

Asn Leu Pro Lys Gly Lys Lys Pro Ala Pro Gln Ala Ala Glu Pro Asn  
435 440 445

Asn His Thr Glu Tyr Ala Ser Ile Gln Thr Ser Pro Gln Pro Ala Ser  
450 455 460

Glu Asp Thr Leu Thr Tyr Ala Asp Leu Asp Met Val His Leu Asn Arg  
465 470 475 480

Thr Pro Lys Gln Pro Ala Pro Lys Pro Glu Pro Ser Phe Ser Glu Tyr  
485 490 495

Ala Ser Val Gln Val Pro Arg Lys  
500

**<210> 568**

**<211> 510**

<212> PRT

<213> Mus musculus

<400> 568

Met Ile Phe Arg Asp His Ser Ile Leu Ile Met Ala Ser Leu His Phe  
1 5 10 15

Pro Gln Trp Ala Val Ser Phe Val Phe Phe Ala Gln Ala Val Gly Ser  
Page 546

Met Asp Thr Phe Ile Ala Ala Val Tyr Glu His Ala Val Ile Leu Pro  
 35 40 45  
 Asn Lys Thr Glu Ser Pro Val Ser Thr Glu Glu Ala Leu Leu Leu Ile  
 50 55 60  
 Asn Lys Asn Ile Asp Ile Leu Glu Ser Ala Ile Lys Leu Ala Ala Arg  
 65 70 75 80  
 Gln Gly Ala His Ile Ile Val Thr Pro Glu Asp Gly Ile Tyr Gly Trp  
 85 90 95  
 Ile Phe Thr Arg Glu Thr Ile Tyr Pro Tyr Leu Glu Asp Ile Pro Asp  
 100 105 110  
 Pro Glu Val Asn Trp Ile Pro Cys Arg Asp Pro Arg Arg Phe Gly Tyr  
 115 120 125  
 Thr Pro Val Gln Glu Arg Leu Ser Cys Leu Ala Lys Glu Asn Ser Ile  
 130 135 140  
 Tyr Ile Met Ala Asn Ile Gly Asp Lys Lys Pro Cys Asn Ala Thr Asp  
 145 150 155 160  
 Pro His Cys Pro Pro Asp Gly Arg Tyr Gln Tyr Asn Thr Asn Val Val  
 165 170 175  
 Phe Asp Ser Lys Gly Arg Leu Thr Ala Arg Tyr His Lys Tyr Asn Leu  
 180 185 190  
 Phe Glu Pro Glu Ile Gln Phe Asp Phe Pro Lys Asp Ser Glu Leu Val  
 195 200 205  
 Thr Phe Asp Thr Pro Phe Gly Lys Phe Gly Ile Phe Thr Cys Phe Asp  
 210 215 220  
 Ile Phe Ser Tyr Asp Pro Ala Val Val Val Val Lys Asp Thr Gln Val  
 225 230 235 240  
 Asp Ser Val Leu Leu Pro Thr Ala Trp Tyr Asn Thr Leu Pro Leu Leu  
 245 250 255  
 Ser Ala Val Pro Phe His Ser Val Trp Ala Arg Ala Met Gly Val Asn  
 260 265 270

Val Leu Ala Ala Asn Thr His Asn Thr Ser Met His Met Thr Gly Ser  
 275 280 285

Gly Ile Tyr Ser Pro Glu Ala Val Arg Val Tyr His Tyr Asp Met Glu  
 290 295 300

Thr Glu Ser Gly Gln Leu Leu Leu Ser Glu Leu Arg Ser Arg Pro Arg  
 305 310 315 320

Gln His Ala Thr Pro Ala Glu Val Asn Trp Ser Ala Tyr Ala Arg Thr  
 325 330 335

Val Lys Pro Phe Ser Ser Gly Gln Ala Asp Phe Pro Gly Lys Ile Tyr  
 340 345 350

Phe Asp Glu Phe Ser Phe Thr Lys Leu Thr Gly Ser Ala Gly Asn Tyr  
 355 360 365

Thr Val Cys Gln Lys Asp Leu Cys Cys His Leu Thr Tyr Lys Met Ser  
 370 375 380

Glu Ser Arg Met Asp Glu Val Tyr Val Leu Gly Ala Phe Asp Gly Leu  
 385 390 395 400

His Thr Gly Glu Gly Gln Tyr Tyr Leu Gln Ile Cys Thr Leu Leu Lys  
 405 410 415

Cys Gln Thr Thr Asn Ser Arg Thr Cys Gly Glu Pro Val Gly Ser Ala  
 420 425 430

Phe Thr Lys Phe Glu Glu Phe Ser Leu Ser Gly Thr Phe Arg Thr Lys  
 435 440 445

Tyr Val Phe Pro Gln Ile Val Leu Ser Gly Ser Gln Leu Ala Leu Glu  
 450 455 460

Arg Tyr Tyr Glu Val Ser Arg Asp Gly Arg Leu Arg Ser Arg Gly Gly  
 465 470 475 480

Ala Pro Leu Pro Ile Leu Val Met Ala Leu Tyr Gly Arg Val Phe Glu  
 485 490 495

Arg Asp Pro Pro Arg Leu Gly Gln Gly Pro Gly Lys Leu Gln  
 500 505 510

<210> 569

<211> 501



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 569

Met Ile Ile Ser His Phe Pro Lys Cys Val Ala Val Phe Ala Leu Leu  
 1 5 10 15

Ala Leu Ser Val Gly Ala Leu Asp Thr Phe Ile Ala Ala Val Tyr Glu  
 20 25 30

His Ala Val Ile Leu Pro Asn Arg Thr Glu Thr Pro Val Ser Lys Glu  
 35 40 45

Glu Ala Leu Leu Leu Met Asn Lys Asn Ile Asp Val Leu Glu Lys Ala  
 50 55 60

Val Lys Leu Ala Ala Lys Gln Gly Ala His Ile Ile Val Thr Pro Glu  
 65 70 75 80

Asp Gly Ile Tyr Gly Trp Ile Phe Thr Arg Glu Ser Ile Tyr Pro Tyr  
 85 90 95

Leu Glu Asp Ile Pro Asp Pro Gly Val Asn Trp Ile Pro Cys Arg Asp  
 100 105 110

Pro Trp Arg Phe Gly Asn Thr Pro Val Gln Gln Arg Leu Ser Cys Leu  
 115 120 125

Ala Lys Asp Asn Ser Ile Tyr Val Val Ala Asn Ile Gly Asp Lys Lys  
 130 135 140

Pro Cys Asn Ala Ser Asp Ser Gln Cys Pro Pro Asp Gly Arg Tyr Gln  
 145 150 155 160

Tyr Asn Thr Asp Val Val Phe Asp Ser Gln Gly Lys Leu Leu Ala Arg  
 165 170 175

Tyr His Lys Tyr Asn Leu Phe Ala Pro Glu Ile Gln Phe Asp Phe Pro  
 180 185 190

Lys Asp Ser Glu Leu Val Thr Phe Asp Thr Pro Phe Gly Lys Phe Gly  
 195 200 205

Ile Phe Thr Cys Phe Asp Ile Phe Ser His Asp Pro Ala Ala Val Val  
 210 215 220

Val Asp Glu Val Ser Ile Asp Ser Ile Leu Tyr Pro Thr Ala Trp Tyr  
 225 230 235 240  
 Asn Thr Leu Pro Leu Leu Ser Ala Val Pro Phe His Ser Ala Trp Ala  
 245 250 255  
 Lys Ala Met Gly Val Asn Leu Leu Ala Ala Asn Thr His Asn Thr Ser  
 260 265 270  
 Met His Met Thr Gly Ser Gly Ile Tyr Ala Pro Glu Ala Val Lys Val  
 275 280 285  
 Tyr His Tyr Asp Met Glu Thr Glu Ser Gly Gln Leu Leu Leu Ser Glu  
 290 295 300  
 Leu Lys Ser Arg Pro Arg Arg Glu Pro Thr Tyr Pro Ala Ala Val Asp  
 305 310 315 320  
 Trp His Ala Tyr Ala Ser Ser Val Lys Pro Phe Ser Ser Glu Gln Ser  
 325 330 335  
 Asp Phe Leu Gly Met Ile Tyr Phe Asp Glu Phe Thr Phe Thr Lys Leu  
 340 345 350  
 Lys Arg Asn Thr Gly Asn Tyr Thr Ala Cys Gln Lys Asp Leu Cys Cys  
 355 360 365  
 His Leu Thr Tyr Lys Met Ser Glu Lys Arg Thr Asp Glu Ile Tyr Ala  
 370 375 380  
 Leu Gly Ala Phe Asp Gly Leu His Thr Val Glu Gly Gln Tyr Tyr Leu  
 385 390 395 400  
 Gln Ile Cys Ala Leu Leu Lys Cys Gln Thr Thr Asp Leu Glu Thr Cys  
 405 410 415  
 Gly Glu Pro Val Gly Ser Ala Phe Thr Lys Phe Glu Asp Phe Ser Leu  
 420 425 430  
 Ser Gly Thr Phe Gly Thr Arg Tyr Val Phe Pro Gln Ile Ile Leu Ser  
 435 440 445  
 Gly Ser Gln Leu Ala Pro Glu Arg His Tyr Glu Ile Ser Arg Asp Gly  
 450 455 460  
 Arg Leu Arg Ser Arg Ser Gly Ala Pro Leu Pro Val Leu Val Met Ala  
 Page 550

465

470

475

480

Leu Tyr Gly Arg Val Phe Glu Lys Asp Pro Pro Arg Leu Gly Gln Gly  
 485 490 495

Ser Gly Lys Phe Gln  
 500

&lt;210&gt; 570

&lt;211&gt; 301

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 570

Met Asp Val Leu Ala Ser Tyr Ser Ile Phe Gln Glu Leu Gln Leu Val  
 1 5 10 15

His Asp Thr Gly Tyr Phe Ser Ala Leu Pro Ser Leu Glu Glu Thr Trp  
 20 25 30

Gln Gln Thr Cys Leu Glu Leu Glu Arg Tyr Leu Gln Thr Glu Pro Arg  
 35 40 45

Arg Ile Ser Glu Thr Phe Gly Glu Asp Leu Asp Cys Phe Leu His Ala  
 50 55 60

Ser Pro Pro Pro Cys Ile Glu Glu Ser Phe Arg Arg Leu Asp Pro Leu  
 65 70 75 80

Leu Leu Pro Val Glu Ala Thr Ile Cys Glu Lys Ser Ser Ala Val Asp  
 85 90 95

Ile Leu Leu Ser Arg Asp Lys Leu Leu Ser Glu Thr Cys Leu Ser Leu  
 100 105 110

Gln Pro Thr Ser Ser Ser Leu Asp Ser Tyr Thr Ala Val Asn Gln Ala  
 115 120 125

Gln Leu Asn Ala Val Thr Ser Leu Thr Pro Pro Ser Ser Pro Glu Leu  
 130 135 140

Ser Arg His Leu Val Lys Thr Ser Gln Thr Leu Ser Ala Val Asp Gly  
 145 150 155 160

Thr Val Thr Leu Lys<sub>165</sub> Leu Val Ala Lys<sub>170</sub> Lys Ala Ser Leu Ser Pro Val<sub>175</sub>

Lys Val Gly Gly<sub>180</sub> Val Ala Ala Ala<sub>185</sub> Ala Val Thr Pro Ala<sub>190</sub> Gly Ala

Val Lys Ser<sub>195</sub> Gly Gln Ser Asp<sub>200</sub> Ser Glu Gln Gly Gly<sub>205</sub> Gly Ala Asp

Thr Cys<sub>210</sub> Pro Glu Asn Lys Lys<sub>215</sub> Arg Val His Arg Cys<sub>220</sub> Gln Phe Asn Gly

Cys Arg Lys Val Tyr Thr<sub>230</sub> Lys Ser Ser His Leu<sub>235</sub> Lys Ala His Gln Arg<sub>240</sub>

Thr His Thr Gly Glu<sub>245</sub> Lys Pro Tyr Lys Cys<sub>250</sub> Ser Trp Glu Gly Cys<sub>255</sub> Glu

Trp Arg Phe Ala<sub>260</sub> Arg Ser Asp Glu Leu<sub>265</sub> Thr Arg His Tyr Arg<sub>270</sub> Lys His

Thr Gly Ala<sub>275</sub> Lys Pro Phe Lys Cys<sub>280</sub> Asn His Cys Asp Arg<sub>285</sub> Cys Phe Ser

Arg Ser Asp His Leu Ala Leu<sub>295</sub> His Met Lys Arg His<sub>300</sub> Ile

<210> 571

<211> 302

<212> PRT

<213> Homo sapiens

<400> 571

Met Asp Val Leu Ala Ser Tyr Ser Ile Phe Gln Glu Leu Gln Leu Val<sub>15</sub>  
1 5 10

His Asp Thr Gly<sub>20</sub> Tyr Phe Ser Ala Leu<sub>25</sub> Pro Ser Leu Glu Glu<sub>30</sub> Thr Trp

Gln Gln Thr Cys Leu Glu Leu Glu<sub>40</sub> Arg Tyr Leu Gln Thr Glu Pro Arg<sub>45</sub>  
35

Arg Ile ser Glu Thr Phe Gly<sub>55</sub> Glu Asp Leu Asp Cys<sub>60</sub> Phe Leu His Ala  
50 60

## 69014-PRO2.ST25.txt

Ser Pro Pro Pro Cys Ile Glu Glu Ser Phe Arg Arg Leu Asp Pro Leu  
 65 70 75 80  
 Leu Leu Pro Val Glu Ala Ala Ile Cys Glu Lys Ser Ser Ala Val Asp  
 85 90 95  
 Ile Leu Leu Ser Arg Asp Lys Leu Leu Ser Glu Thr Cys Leu Ser Leu  
 100 105 110  
 Gln Pro Ala Ser Ser Ser Leu Asp Ser Tyr Thr Ala Val Asn Gln Ala  
 115 120 125  
 Gln Leu Asn Ala Val Thr Ser Leu Thr Pro Pro Ser Ser Pro Glu Leu  
 130 135 140  
 Ser Arg His Leu Val Lys Thr Ser Gln Thr Leu Ser Ala Val Asp Gly  
 145 150 155 160  
 Thr Val Thr Leu Lys Leu Val Ala Lys Lys Ala Ala Leu Ser Ser Val  
 165 170 175  
 Lys Val Gly Gly Val Ala Thr Ala Ala Ala Ala Val Thr Ala Ala Gly  
 180 185 190  
 Ala Val Lys Ser Gly Gln Ser Asp Ser Asp Gln Gly Gly Leu Gly Ala  
 195 200 205  
 Glu Ala Cys Pro Glu Asn Lys Lys Arg Val His Arg Cys Gln Phe Asn  
 210 215 220  
 Gly Cys Arg Lys Val Tyr Thr Lys Ser Ser His Leu Lys Ala His Gln  
 225 230 235 240  
 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Ser Trp Glu Gly Cys  
 245 250 255  
 Glu Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg Lys  
 260 265 270  
 His Thr Gly Ala Lys Pro Phe Lys Cys Asn His Cys Asp Arg Cys Phe  
 275 280 285  
 Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Ile  
 290 295 300

&lt;210&gt; 572

&lt;211&gt; 1202

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 572

Met Gly Asn Leu Lys Ser Val Gly Gln Glu Pro Gly Pro Pro Cys Gly  
 1 5 10 15

Leu Gly Leu Gly Leu Gly Leu Gly Leu Cys Gly Lys Gln Gly Pro Ala  
 20 25 30

Ser Pro Ala Pro Glu Pro Ser Gln Ala Pro Ala Pro Pro Ser Pro Thr  
 35 40 45

Arg Ala Ala Pro Asp His Ser Pro Pro Leu Thr Arg Pro Pro Asp Gly  
 50 55 60

Pro Arg Phe Pro Arg Val Lys Asn Trp Glu Val Gly Ser Ile Thr Tyr  
 65 70 75 80

Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Ser Arg  
 85 90 95

Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Ser Arg Pro  
 100 105 110

Thr Gln Gly Pro Ser Pro Thr Glu Gln Leu Leu Gly Gln Ala Arg Asp  
 115 120 125

Phe Ile Asn Gln Tyr Tyr Asn Ser Ile Lys Arg Ser Gly Ser Gln Ala  
 130 135 140

His Glu Gln Arg Leu Gln Glu Val Glu Ala Glu Val Ala Ala Thr Gly  
 145 150 155 160

Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln Ala  
 165 170 175

Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp Gly Lys Leu  
 180 185 190

Gln Val Phe Asp Ala Arg Asp Cys Arg Thr Ala Gln Glu Met Phe Thr  
 195 200 205

Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu Arg  
 Page 554

210

215

Ser Ala Ile Thr Val Phe Pro Gln Arg Cys Pro Gly Arg Gly Asp Phe  
225 230 235 240

Arg Ile Trp Asn Ser Gln Leu Ile Arg Tyr Ala Gly Tyr Arg Gln Gln  
245 250 255

Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile Thr Glu Leu  
260 265 270

Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe Asp Val Leu  
275 280 285

Pro Leu Leu Leu Gln Ala Pro Asp Glu Ser Pro Glu Leu Phe Thr Leu  
290 295 300

Pro Pro Glu Met Val Leu Glu Val Pro Leu Glu His Pro Thr Leu Glu  
305 310 315 320

Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val Ser  
325 330 335

Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro Phe  
340 345 350

Ser Gly Trp Tyr Met Ser Ser Glu Ile Gly Met Arg Asp Leu Cys Asp  
355 360 365

Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys Met Asp Leu  
370 375 380

Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala Ala Val Glu  
385 390 395 400

Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr Ile  
405 410 415

Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu Asn  
420 425 430

Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala Trp Ile Val  
435 440 445

Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln Glu Met Val  
450 455 460

Asn Tyr Phe Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp Pro Trp Lys  
 465 470 475 480  
 Gly Ser Ala Ala Lys Gly Ala Gly Ile Thr Arg Lys Lys Thr Phe Lys  
 485 490 495  
 Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met Gly Thr Val  
 500 505 510  
 Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr Gly  
 515 520 525  
 Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys Ala  
 530 535 540  
 Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val Val Ser Leu  
 545 550 555 560  
 Glu His Glu Ala Leu Val Leu Val Val Thr Ser Thr Phe Gly Asn Gly  
 565 570 575  
 Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu Met  
 580 585 590  
 Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser Tyr  
 595 600 605  
 Lys Ile Arg Phe Asn Ser Val Ser Cys Ser Asp Pro Leu Val Ser Ser  
 610 615 620  
 Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly Ala  
 625 630 635 640  
 Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser Arg Ala Tyr  
 645 650 655  
 Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg Leu Glu Glu  
 660 665 670  
 Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp Glu Leu Cys  
 675 680 685  
 Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Gln Ala Ala Phe Gln Ala  
 690 695 700  
 Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala Arg  
 705 710 715 720



Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg Leu  
 725 730 735  
 Ser Thr Gln Ala Glu Ser Leu Gln Leu Leu Pro Gly Leu Thr His Val  
 740 745 750  
 His Arg Arg Lys Met Phe Gln Ala Thr Ile Leu Ser Val Glu Asn Leu  
 755 760 765  
 Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg Leu Asp Thr  
 770 775 780  
 Gly Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His Ile Gly Val  
 785 790 795 800  
 Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu Ser Arg Val  
 805 810 815  
 Glu Asp Pro Pro Pro Ser Thr Glu Pro Val Ala Val Glu Gln Leu Glu  
 820 825 830  
 Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro Arg  
 835 840 845  
 Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Tyr Phe Leu Asp Ile  
 850 855 860  
 Thr Ser Pro Pro Ser Pro Arg Leu Leu Arg Leu Leu Ser Thr Leu Ala  
 865 870 875 880  
 Glu Glu Ser Ser Glu Gln Gln Glu Leu Glu Ala Leu Ser Gln Asp Pro  
 885 890 895  
 Arg Arg Tyr Glu Glu Trp Lys Trp Phe Ser Cys Pro Thr Leu Leu Glu  
 900 905 910  
 Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro Leu Ile Leu  
 915 920 925  
 Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val Ser Ser Ala  
 930 935 940  
 Pro Ser Ala His Pro Gly Glu Ile His Leu Thr Ile Ala Val Leu Ala  
 945 950 955 960  
 Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys Ser  
 965 970 975

Thr Trp Met Ser Gln Leu Lys Ala Gly Asp Pro Val Pro Cys Phe Ile  
 980 985 990

Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Asn Leu Pro Cys  
 995 1000 1005

Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg Gly Phe  
 1010 1015 1020

Trp Gln Asp Arg Leu His Asp Ile Glu Ile Lys Gly Leu Gln Pro  
 1025 1030 1035

Ala Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu Asp  
 1040 1045 1050

His Leu Tyr Arg Asp Glu Val Leu Asp Ala Gln Gln Arg Gly Val  
 1055 1060 1065

Phe Gly Gln Val Leu Thr Ala Phe Ser Arg Asp Pro Gly Ser Pro  
 1070 1075 1080

Lys Thr Tyr Val Gln Asp Leu Leu Arg Thr Glu Leu Ala Ala Glu  
 1085 1090 1095

Val His Arg Val Leu Cys Leu Glu Gln Gly His Met Phe Val Cys  
 1100 1105 1110

Gly Asp Val Thr Met Ala Thr Ser Val Leu Gln Thr Val Gln Arg  
 1115 1120 1125

Ile Leu Ala Thr Glu Gly Gly Met Glu Leu Asp Glu Ala Gly Asp  
 1130 1135 1140

Val Ile Gly Val Leu Arg Asp Gln Gln Arg Tyr His Glu Asp Ile  
 1145 1150 1155

Phe Gly Leu Thr Leu Arg Thr Gln Glu Val Thr Ser Arg Ile Arg  
 1160 1165 1170

Thr Gln Ser Phe Ser Leu Gln Glu Arg Gln Leu Arg Gly Ala Val  
 1175 1180 1185

Pro Trp Ser Phe Asp Pro Pro Gly Pro Glu Ile Pro Gly Ser  
 1190 1195 1200

<210> 573

&lt;211&gt; 1203

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 573

Met Gly Asn Leu Lys Ser Val Ala Gln Glu Pro Gly Pro Pro Cys Gly  
 1 5 10 15

Leu Gly Leu Gly Leu Gly Leu Gly Leu Cys Gly Lys Gln Gly Pro Ala  
 20 25 30

Thr Pro Ala Pro Glu Pro Ser Arg Ala Pro Ala Ser Leu Leu Pro Pro  
 35 40 45

Ala Pro Glu His Ser Pro Pro Ser Ser Pro Leu Thr Gln Pro Pro Glu  
 50 55 60

Gly Pro Lys Phe Pro Arg Val Lys Asn Trp Glu Val Gly Ser Ile Thr  
 65 70 75 80

Tyr Asp Thr Leu Ser Ala Gln Ala Gln Gln Asp Gly Pro Cys Thr Pro  
 85 90 95

Arg Arg Cys Leu Gly Ser Leu Val Phe Pro Arg Lys Leu Gln Gly Arg  
 100 105 110

Pro Ser Pro Gly Pro Pro Ala Pro Glu Gln Leu Leu Ser Gln Ala Arg  
 115 120 125

Asp Phe Ile Asn Gln Tyr Tyr Ser Ser Ile Lys Arg Ser Gly Ser Gln  
 130 135 140

Ala His Glu Gln Arg Leu Gln Glu Val Glu Ala Glu Val Ala Ala Thr  
 145 150 155 160

Gly Thr Tyr Gln Leu Arg Glu Ser Glu Leu Val Phe Gly Ala Lys Gln  
 165 170 175

Ala Trp Arg Asn Ala Pro Arg Cys Val Gly Arg Ile Gln Trp Gly Lys  
 180 185 190

Leu Gln Val Phe Asp Ala Arg Asp Cys Arg Ser Ala Gln Glu Met Phe  
 195 200 205

## 69014-PRO2.ST25.txt

Thr Tyr Ile Cys Asn His Ile Lys Tyr Ala Thr Asn Arg Gly Asn Leu  
 210 215 220  
 Arg Ser Ala Ile Thr Val Phe Pro Gln Arg Cys Pro Gly Arg Gly Asp  
 225 230 235 240  
 Phe Arg Ile Trp Asn Ser Gln Leu Val Arg Tyr Ala Gly Tyr Arg Gln  
 245 250 255  
 Gln Asp Gly Ser Val Arg Gly Asp Pro Ala Asn Val Glu Ile Thr Glu  
 260 265 270  
 Leu Cys Ile Gln His Gly Trp Thr Pro Gly Asn Gly Arg Phe Asp Val  
 275 280 285  
 Leu Pro Leu Leu Leu Gln Ala Pro Asp Glu Pro Pro Glu Leu Phe Leu  
 290 295 300  
 Leu Pro Pro Glu Leu Val Leu Glu Val Pro Leu Glu His Pro Thr Leu  
 305 310 315 320  
 Glu Trp Phe Ala Ala Leu Gly Leu Arg Trp Tyr Ala Leu Pro Ala Val  
 325 330 335  
 Ser Asn Met Leu Leu Glu Ile Gly Gly Leu Glu Phe Pro Ala Ala Pro  
 340 345 350  
 Phe Ser Gly Trp Tyr Met Ser Thr Glu Ile Gly Thr Arg Asn Leu Cys  
 355 360 365  
 Asp Pro His Arg Tyr Asn Ile Leu Glu Asp Val Ala Val Cys Met Asp  
 370 375 380  
 Leu Asp Thr Arg Thr Thr Ser Ser Leu Trp Lys Asp Lys Ala Ala Val  
 385 390 395 400  
 Glu Ile Asn Val Ala Val Leu His Ser Tyr Gln Leu Ala Lys Val Thr  
 405 410 415  
 Ile Val Asp His His Ala Ala Thr Ala Ser Phe Met Lys His Leu Glu  
 420 425 430  
 Asn Glu Gln Lys Ala Arg Gly Gly Cys Pro Ala Asp Trp Ala Trp Ile  
 435 440 445  
 Val Pro Pro Ile Ser Gly Ser Leu Thr Pro Val Phe His Gln Glu Met  
 450 455 460

## 69014-PRO2.ST25.txt

Val Asn Tyr Phe Leu Ser Pro Ala Phe Arg Tyr Gln Pro Asp Pro Trp  
 465 470 475 480  
 Lys Gly Ser Ala Ala Lys Gly Thr Gly Ile Thr Arg Lys Lys Thr Phe  
 485 490 495  
 Lys Glu Val Ala Asn Ala Val Lys Ile Ser Ala Ser Leu Met Gly Thr  
 500 505 510  
 Val Met Ala Lys Arg Val Lys Ala Thr Ile Leu Tyr Gly Ser Glu Thr  
 515 520 525  
 Gly Arg Ala Gln Ser Tyr Ala Gln Gln Leu Gly Arg Leu Phe Arg Lys  
 530 535 540  
 Ala Phe Asp Pro Arg Val Leu Cys Met Asp Glu Tyr Asp Val Val Ser  
 545 550 555 560  
 Leu Glu His Glu Thr Leu Val Leu Val Val Thr Ser Thr Phe Gly Asn  
 565 570 575  
 Gly Asp Pro Pro Glu Asn Gly Glu Ser Phe Ala Ala Ala Leu Met Glu  
 580 585 590  
 Met Ser Gly Pro Tyr Asn Ser Ser Pro Arg Pro Glu Gln His Lys Ser  
 595 600 605  
 Tyr Lys Ile Arg Phe Asn Ser Ile Ser Cys Ser Asp Pro Leu Val Ser  
 610 615 620  
 Ser Trp Arg Arg Lys Arg Lys Glu Ser Ser Asn Thr Asp Ser Ala Gly  
 625 630 635 640  
 Ala Leu Gly Thr Leu Arg Phe Cys Val Phe Gly Leu Gly Ser Arg Ala  
 645 650 655  
 Tyr Pro His Phe Cys Ala Phe Ala Arg Ala Val Asp Thr Arg Leu Glu  
 660 665 670  
 Glu Leu Gly Gly Glu Arg Leu Leu Gln Leu Gly Gln Gly Asp Glu Leu  
 675 680 685  
 Cys Gly Gln Glu Glu Ala Phe Arg Gly Trp Ala Gln Ala Ala Phe Gln  
 690 695 700  
 Ala Ala Cys Glu Thr Phe Cys Val Gly Glu Asp Ala Lys Ala Ala Ala  
 705 710 715 720

Arg Asp Ile Phe Ser Pro Lys Arg Ser Trp Lys Arg Gln Arg Tyr Arg  
 725 730 735  
 Leu Ser Ala Gln Ala Glu Gly Leu Gln Leu Leu Pro Gly Leu Ile His  
 740 745 750  
 Val His Arg Arg Lys Met Phe Gln Ala Thr Ile Arg Ser Val Glu Asn  
 755 760 765  
 Leu Gln Ser Ser Lys Ser Thr Arg Ala Thr Ile Leu Val Arg Leu Asp  
 770 775 780  
 Thr Gly Gly Gln Glu Gly Leu Gln Tyr Gln Pro Gly Asp His Ile Gly  
 785 790 795 800  
 Val Cys Pro Pro Asn Arg Pro Gly Leu Val Glu Ala Leu Leu Ser Arg  
 805 810 815  
 Val Glu Asp Pro Pro Ala Pro Thr Glu Pro Val Ala Val Glu Gln Leu  
 820 825 830  
 Glu Lys Gly Ser Pro Gly Gly Pro Pro Pro Gly Trp Val Arg Asp Pro  
 835 840 845  
 Arg Leu Pro Pro Cys Thr Leu Arg Gln Ala Leu Thr Phe Phe Leu Asp  
 850 855 860  
 Ile Thr Ser Pro Pro Ser Pro Gln Leu Leu Arg Leu Leu Ser Thr Leu  
 865 870 875 880  
 Ala Glu Glu Pro Arg Glu Gln Gln Glu Leu Glu Ala Leu Ser Gln Asp  
 885 890 895  
 Pro Arg Arg Tyr Glu Glu Trp Lys Trp Phe Arg Cys Pro Thr Leu Leu  
 900 905 910  
 Glu Val Leu Glu Gln Phe Pro Ser Val Ala Leu Pro Ala Pro Leu Leu  
 915 920 925  
 Leu Thr Gln Leu Pro Leu Leu Gln Pro Arg Tyr Tyr Ser Val Ser Ser  
 930 935 940  
 Ala Pro Ser Thr His Pro Gly Glu Ile His Leu Thr Val Ala Val Leu  
 945 950 955 960  
 Ala Tyr Arg Thr Gln Asp Gly Leu Gly Pro Leu His Tyr Gly Val Cys  
 Page 562

Ser Thr Trp Leu Ser Gln Leu Lys Pro Gly Asp Pro Val Pro Cys Phe  
 980 985 990

Ile Arg Gly Ala Pro Ser Phe Arg Leu Pro Pro Asp Pro Ser Leu Pro  
 995 1000 1005

Cys Ile Leu Val Gly Pro Gly Thr Gly Ile Ala Pro Phe Arg Gly  
 1010 1015 1020

Phe Trp Gln Glu Arg Leu His Asp Ile Glu Ser Lys Gly Leu Gln  
 1025 1030 1035

Pro Thr Pro Met Thr Leu Val Phe Gly Cys Arg Cys Ser Gln Leu  
 1040 1045 1050

Asp His Leu Tyr Arg Asp Glu Val Gln Asn Ala Gln Gln Arg Gly  
 1055 1060 1065

Val Phe Gly Arg Val Leu Thr Ala Phe Ser Arg Glu Pro Asp Asn  
 1070 1075 1080

Pro Lys Thr Tyr Val Gln Asp Ile Leu Arg Thr Glu Leu Ala Ala  
 1085 1090 1095

Glu Val His Arg Val Leu Cys Leu Glu Arg Gly His Met Phe Val  
 1100 1105 1110

Cys Gly Asp Val Thr Met Ala Thr Asn Val Leu Gln Thr Val Gln  
 1115 1120 1125

Arg Ile Leu Ala Thr Glu Gly Asp Met Glu Leu Asp Glu Ala Gly  
 1130 1135 1140

Asp Val Ile Gly Val Leu Arg Asp Gln Gln Arg Tyr His Glu Asp  
 1145 1150 1155

Ile Phe Gly Leu Thr Leu Arg Thr Gln Glu Val Thr Ser Arg Ile  
 1160 1165 1170

Arg Thr Gln Ser Phe Ser Leu Gln Glu Arg Gln Leu Arg Gly Ala  
 1175 1180 1185

Val Pro Trp Ala Phe Asp Pro Pro Gly Ser Asp Thr Asn Ser Pro  
 1190 1195 1200

&lt;210&gt; 574

&lt;211&gt; 680

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 574

Met Ser Cys Thr Phe Thr Ala Leu Leu Arg Leu Gly Leu Thr Leu Ser  
 1 5 10 15

Leu Trp Ile Pro Val Leu Thr Gly Ser Leu Pro Lys Pro Ile Leu Arg  
 20 25 30

Val Gln Pro Asp Ser Val Val Ser Arg Trp Thr Lys Val Thr Phe Phe  
 35 40 45

Cys Glu Glu Thr Ile Gly Ala Asn Glu Tyr Arg Leu Tyr Lys Asp Gly  
 50 55 60

Lys Leu Tyr Lys Thr Val Thr Lys Asn Lys Gln Lys Pro Ala Asn Lys  
 65 70 75 80

Ala Glu Phe Ser Leu Ser Asn Val Asp Leu Arg Asn Ala Gly Gln Tyr  
 85 90 95

Arg Cys Ser Tyr Ser Thr Gln Tyr Lys Ser Ser Gly Tyr Ser Asp Pro  
 100 105 110

Leu Glu Leu Val Val Thr Gly Asp Tyr Trp Thr Pro Ser Leu Leu Ala  
 115 120 125

Gln Ala Ser Pro Val Val Thr Ser Gly Gly Tyr Val Thr Leu Gln Cys  
 130 135 140

Glu Ser Trp His Asn Asp His Lys Phe Ile Leu Thr Val Glu Gly Pro  
 145 150 155 160

Gln Lys Leu Ser Trp Thr Gln Asp Ser Gln Tyr Asn Tyr Ser Thr Arg  
 165 170 175

Lys Tyr His Ala Leu Phe Ser Val Gly Pro Val Thr Pro Asn Gln Arg  
 180 185 190

Trp Ile Cys Arg Cys Tyr Ser Tyr Asp Arg Asn Arg Pro Tyr Val Trp  
 195 200 205



## 69014-PRO2.ST25.txt

Ser Pro Pro Ser Glu Ser Val Glu Leu Leu Val Ser Gly Asn Leu Gln  
 210 215 220  
 Lys Pro Thr Ile Lys Ala Glu Pro Gly Pro Val Ile Ala Ser Lys Arg  
 225 230 235 240  
 Ala Met Thr Ile Trp Cys Gln Gly Asn Leu Asp Ala Glu Val Tyr Phe  
 245 250 255  
 Leu His Asn Glu Gly Ser Gln Lys Thr Gln Ser Thr Gln Thr Leu Gln  
 260 265 270  
 Gln Pro Gly Asn Lys Gly Lys Phe Phe Ile Pro Ser Met Thr Arg Gln  
 275 280 285  
 His Ala Gly Gln Tyr Arg Cys Tyr Cys Tyr Gly Ser Ala Gly Trp Ser  
 290 295 300  
 Gln Pro Ser Asp Thr Leu Glu Leu Val Val Thr Gly Ile Tyr Glu His  
 305 310 315 320  
 Tyr Lys Pro Arg Leu Ser Val Leu Pro Ser Pro Val Val Thr Ala Gly  
 325 330 335  
 Gly Asn Met Thr Leu His Cys Ala Ser Asp Phe His Tyr Asp Lys Phe  
 340 345 350  
 Ile Leu Thr Lys Glu Asp Lys Lys Phe Gly Asn Ser Leu Asp Thr Glu  
 355 360 365  
 His Ile Ser Ser Ser Arg Gln Tyr Arg Ala Leu Phe Ile Ile Gly Pro  
 370 375 380  
 Thr Thr Pro Thr His Thr Gly Thr Phe Arg Cys Tyr Gly Tyr Phe Lys  
 385 390 395 400  
 Asn Ala Pro Gln Leu Trp Ser Val Pro Ser Asp Leu Gln Gln Ile Leu  
 405 410 415  
 Ile Ser Gly Leu Ser Lys Lys Pro Ser Leu Leu Thr His Gln Gly His  
 420 425 430  
 Ile Leu Asp Pro Gly Met Thr Leu Thr Leu Gln Cys Phe Ser Asp Ile  
 435 440 445  
 Asn Tyr Asp Arg Phe Ala Leu His Lys Val Gly Gly Ala Asp Ile Met  
 450 455 460

Gln His Ser Ser Gln Gln Thr Asp Thr Gly Phe Ser Val Ala Asn Phe  
 465 470 475 480  
 Thr Leu Gly Tyr Val Ser Ser Ser Thr Gly Gly Gln Tyr Arg Cys Tyr  
 485 490 495  
 Gly Ala His Asn Leu Ser Ser Glu Trp Ser Ala Ser Ser Glu Pro Leu  
 500 505 510  
 Asp Ile Leu Ile Thr Gly Gln Leu Pro Leu Thr Pro Ser Leu Ser Val  
 515 520 525  
 Lys Pro Asn His Thr Val His Ser Gly Glu Thr Val Ser Leu Leu Cys  
 530 535 540  
 Trp Ser Met Asp Ser Leu Asp Thr Phe Ile Leu Ser Lys Glu Gly Ser  
 545 550 555 560  
 Thr Gln Gln Pro Leu Gln Leu Lys Ser Lys Ser His Asp Gln Gln Ser  
 565 570 575  
 Gln Ala Glu Phe Ser Met Ser Ala Val Thr Ser His Leu Ser Gly Thr  
 580 585 590  
 Tyr Arg Ser Tyr Gly Ala Gln Asp Ser Ser Phe Tyr Leu Leu Ser Ser  
 595 600 605  
 Ala Ser Ala Pro Val Glu Leu Thr Val Ser Glu Thr Ile Glu Ser Ser  
 610 615 620  
 Thr Trp Ser Pro Lys Arg Pro Ile Pro Pro Ile Pro Thr Glu Asn Lys  
 625 630 635 640  
 Asp His Thr Met Glu Asn Leu Ile Arg Met Gly Met Ala Val Leu Val  
 645 650 655  
 Leu Ile Val Leu Ser Ile Leu Ala Thr Glu Ala Trp Arg Ser His Arg  
 660 665 670  
 Gln Thr His Pro Ala Ala Gly Asn  
 675 680

&lt;210&gt; 575

&lt;211&gt; 510

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 575

Met Thr Pro Ile Val Thr Val Leu Ile Cys Leu Gly Leu Ser Leu Gly  
 1 5 10 15  
 Pro Arg Thr His Val Gln Thr Gly Thr Ile Pro Lys Pro Thr Leu Trp  
 20 25 30  
 Ala Glu Pro Asp Ser Val Ile Thr Gln Gly Ser Pro Val Thr Leu Ser  
 35 40 45  
 Cys Gln Gly Ser Leu Glu Ala Gln Glu Tyr Arg Leu Tyr Arg Glu Lys  
 50 55 60  
 Lys Ser Ala Ser Trp Ile Thr Arg Ile Arg Pro Glu Leu Val Lys Asn  
 65 70 75 80  
 Gly Gln Phe His Ile Pro Ser Ile Thr Trp Glu His Thr Gly Arg Tyr  
 85 90 95  
 Gly Cys Gln Tyr Tyr Ser Arg Ala Arg Trp Ser Glu Leu Ser Asp Pro  
 100 105 110  
 Leu Val Leu Val Met Thr Gly Ala Tyr Pro Lys Pro Thr Leu Ser Ala  
 115 120 125  
 Gln Pro Ser Pro Val Val Thr Ser Gly Gly Arg Val Thr Leu Gln Cys  
 130 135 140  
 Glu Ser Gln Val Ala Phe Gly Gly Phe Ile Leu Cys Lys Glu Gly Glu  
 145 150 155 160  
 Glu Glu His Pro Gln Cys Leu Asn Ser Gln Pro His Ala Arg Gly Ser  
 165 170 175  
 Ser Arg Ala Ile Phe Ser Val Gly Pro Val Ser Pro Asn Arg Arg Trp  
 180 185 190  
 Ser His Arg Cys Tyr Gly Tyr Asp Leu Asn Ser Pro Tyr Val Trp Ser  
 195 200 205  
 Ser Pro Ser Asp Leu Leu Glu Leu Leu Val Pro Gly Val Ser Lys Lys  
 210 215 220

Pro Ser Leu Ser Val Gln Pro Gly Pro Val Val Ala Pro Gly Glu Ser  
 225 230 235 240  
 Leu Thr Leu Gln Cys Val Ser Asp Val Gly Tyr Asp Arg Phe Val Leu  
 245 250 255  
 Tyr Lys Glu Gly Glu Arg Asp Leu Arg Gln Leu Pro Gly Arg Gln Pro  
 260 265 270  
 Gln Ala Gly Leu Ser Gln Ala Asn Phe Thr Leu Gly Pro Val Ser Arg  
 275 280 285  
 Ser Tyr Gly Gly Gln Tyr Arg Cys Tyr Gly Ala His Asn Leu Ser Ser  
 290 295 300  
 Glu Cys Ser Ala Pro Ser Asp Pro Leu Asp Ile Leu Ile Thr Gly Gln  
 305 310 315 320  
 Ile Arg Gly Thr Pro Phe Ile Ser Val Gln Pro Gly Pro Thr Val Ala  
 325 330 335  
 Ser Gly Glu Asn Val Thr Leu Leu Cys Gln Ser Trp Arg Gln Phe His  
 340 345 350  
 Thr Phe Leu Leu Thr Lys Ala Gly Ala Ala Asp Ala Pro Leu Arg Leu  
 355 360 365  
 Arg Ser Ile His Glu Tyr Pro Lys Tyr Gln Ala Glu Phe Pro Met Ser  
 370 375 380  
 Pro Val Thr Ser Ala His Ala Gly Thr Tyr Arg Cys Tyr Gly Ser Leu  
 385 390 395 400  
 Asn Ser Asp Pro Tyr Leu Leu Ser His Pro Ser Glu Pro Leu Glu Leu  
 405 410 415  
 Val Val Ser Gly Pro Ser Met Gly Ser Ser Pro Pro Pro Thr Gly Pro  
 420 425 430  
 Ile Ser Thr Pro Ala Gly Pro Glu Asp Gln Pro Leu Thr Pro Thr Gly  
 435 440 445  
 Ser Asp Pro Gln Ser Gly Leu Gly Arg His Leu Gly Val Val Ile Gly  
 450 455 460  
 Ile Leu Val Ala Val Val Leu Leu Leu Leu Leu Leu Leu Leu Phe  
 465 470 475 480

Leu Ile Leu Arg His Arg Arg Gln Gly Lys His Trp Thr Ser Ser Pro  
                   485                  490                  495

Ala Gln Leu Pro Thr Pro Arg Lys Lys Thr Ser Met Leu Pro  
                   500                  505                  510

<210> 576

<211> 64

<212> PRT

<213> Mus musculus

<400> 576

Tyr Gly Ile His Arg Val Arg Asp His Asp Val Arg Ala His Cys Gly  
   1                  5                  10                  15

Val Asp His Met Ala Cys Gly Arg Asp Gly Val Leu Leu Gln Glu Asp  
                   20                  25                  30

Cys Cys Cys Tyr Gly Gly Cys Cys Thr Arg Glu Arg Leu Arg Ile Pro  
                   35                  40                  45

Gly His Tyr Ile Arg Glu Gln Arg Lys Leu Tyr Arg Arg Pro Gly Gly  
   50                  55                  60

<210> 577

<211> 218

<212> PRT

<213> Homo sapiens

<400> 577

Met Gly Arg Leu Leu Ala Leu Val Val Gly Ala Ala Leu Val Ser Ser  
   1                  5                  10                  15

Ala Cys Gly Gly Cys Val Glu Val Asp Ser Glu Thr Glu Ala Val Tyr  
                   20                  25                  30

Gly Met Thr Phe Lys Ile Leu Cys Ile Ser Cys Lys Arg Arg Ser Glu  
                   35                  40                  45

Thr Asn Ala Glu Thr Phe Thr Glu Trp Thr Phe Arg Gln Lys Gly Thr  
   50                  55                  60

Glu Glu Phe Val Lys Ile Leu Arg Tyr Glu Asn Glu Val Leu Gln Leu  
65 70 75 80

Glu Glu Asp Glu Arg Phe Glu Gly Arg Val Val Trp Asn Gly Ser Arg  
85 90 95

Gly Thr Lys Asp Leu Gln Asp Leu Ser Ile Phe Ile Thr Asn Val Thr  
100 105 110

Tyr Asn His Ser Gly Asp Tyr Glu Cys His Val Tyr Arg Leu Leu Phe  
115 120 125

Phe Glu Asn Tyr Glu His Asn Thr Ser Val Val Lys Lys Ile His Ile  
130 135 140

Glu Val Val Asp Lys Ala Asn Arg Asp Met Ala Ser Ile Val Ser Glu  
145 150 155 160

Ile Met Met Tyr Val Leu Ile Val Val Leu Thr Ile Trp Leu Val Ala  
165 170 175

Glu Met Ile Tyr Cys Tyr Lys Lys Ile Ala Ala Ala Thr Glu Thr Ala  
180 185 190

Ala Gln Glu Asn Ala Ser Glu Tyr Leu Ala Ile Thr Ser Glu Ser Lys  
195 200 205

Glu Asn Cys Thr Gly Val Gln Val Ala Glu  
210 215

<210> 578

<211> 373

<212> PRT

<213> Mus musculus

<400> 578

Met Glu Asp Asn Asn Met Leu Pro Gln Phe Ile His Gly Ile Leu Ser  
1 5 10 15

Thr Ser His Ser Leu Phe Thr Arg Ser Ile Gln Glu Leu Asp Glu Gly  
20 25 30

Ala Thr Thr Pro Tyr Asp Tyr Asp Asp Gly Glu Pro Cys His Lys Thr  
Page 570

35

40

45

Ser Val Lys Gln Ile Gly Ala Trp Ile Leu Pro Pro Leu Tyr Ser Leu  
 50 55 60  
 Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Ile Ile Ile Leu  
 65 70 75 80  
 Ile Gly Cys Lys Lys Leu Lys Ser Met Thr Asp Ile Tyr Leu Leu Asn  
 85 90 95  
 Leu Ala Ile Ser Asp Leu Leu Phe Leu Leu Thr Leu Pro Phe Trp Ala  
 100 105 110  
 His Tyr Ala Ala Asn Glu Trp Val Phe Gly Asn Ile Met Cys Lys Val  
 115 120 125  
 Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe Ile  
 130 135 140  
 Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe  
 145 150 155 160  
 Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Ile Thr Ser Val Val  
 165 170 175  
 Thr Trp Val Val Ala Val Phe Ala Ser Leu Pro Gly Ile Ile Phe Thr  
 180 185 190  
 Lys Ser Lys Gln Asp Asp His His Tyr Thr Cys Gly Pro Tyr Phe Thr  
 195 200 205  
 Gln Leu Trp Lys Asn Phe Gln Thr Ile Met Arg Asn Ile Leu Ser Leu  
 210 215 220  
 Ile Leu Pro Leu Leu Val Met Val Ile Cys Tyr Ser Gly Ile Leu His  
 225 230 235 240  
 Thr Leu Phe Arg Cys Arg Asn Glu Lys Lys Arg His Arg Ala Val Arg  
 245 250 255  
 Leu Ile Phe Ala Ile Met Ile Val Tyr Phe Leu Phe Trp Thr Pro Tyr  
 260 265 270  
 Asn Ile Val Leu Phe Leu Thr Thr Phe Gln Glu Ser Leu Gly Met Ser  
 275 280 285

Asn Cys Val Ile Asp Lys His Leu Asp Gln Ala Met Gln Val Thr Glu  
 290 295 300

Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Val Ile Tyr Ala Phe  
 305 310 315 320

Val Gly Glu Lys Phe Arg Arg Tyr Leu Ser Ile Phe Phe Arg Lys His  
 325 330 335

Ile Ala Lys Arg Leu Cys Lys Gln Cys Pro Val Phe Tyr Arg Glu Thr  
 340 345 350

Ala Asp Arg Val Ser Ser Thr Phe Thr Pro Ser Thr Gly Glu Gln Glu  
 355 360 365

Val Ser Val Gly Leu  
 370

<210> 579

<211> 360

<212> PRT

<213> Homo sapiens

<400> 579

Met Leu Ser Thr Ser Arg Ser Arg Phe Ile Arg Asn Thr Asn Glu Ser  
 1 5 10 15

Gly Glu Glu Val Thr Thr Phe Phe Asp Tyr Asp Tyr Gly Ala Pro Cys  
 20 25 30

His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu Pro Pro Leu  
 35 40 45

Tyr Ser Leu Val Phe Ile Phe Gly Phe Val Gly Asn Met Leu Val Val  
 50 55 60

Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys Cys Leu Thr Asp Ile Tyr  
 65 70 75 80

Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Ile Thr Leu Pro  
 85 90 95

Leu Trp Ala His Ser Ala Ala Asn Glu Trp Val Phe Gly Asn Ala Met  
 100 105 110



Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile  
 115 120 125  
 Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His  
 130 135 140  
 Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr  
 145 150 155 160  
 Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile  
 165 170 175  
 Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro  
 180 185 190  
 Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile  
 195 200 205  
 Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly  
 210 215 220  
 Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg  
 225 230 235 240  
 Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp  
 245 250 255  
 Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe  
 260 265 270  
 Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln  
 275 280 285  
 Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile  
 290 295 300  
 Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr Leu Ser Val Phe Phe  
 305 310 315 320  
 Arg Lys His Ile Thr Lys Arg Phe Cys Lys Gln Cys Pro Val Phe Tyr  
 325 330 335  
 Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn Thr Pro Ser Thr Gly  
 340 345 350  
 Glu Gln Glu Val Ser Ala Gly Leu  
 355 360

&lt;210&gt; 580

&lt;211&gt; 449

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 580

Met Asn Leu Glu Thr Gly Ser Arg Gly Ser Glu Phe Gly Met Ser Ala  
 1 5 10 15

Val Ser Cys Gly Asn Gly Lys Leu Arg Gln Trp Leu Ile Asp Gln Ile  
 20 25 30

Asp Ser Gly Lys Tyr Pro Gly Leu Val Trp Glu Asn Glu Glu Lys Ser  
 35 40 45

Val Phe Arg Ile Pro Trp Lys His Ala Gly Lys Gln Asp Tyr Asn Arg  
 50 55 60

Glu Glu Asp Ala Ala Leu Phe Lys Ala Trp Ala Leu Phe Lys Gly Lys  
 65 70 75 80

Phe Arg Glu Gly Ile Asp Lys Pro Asp Pro Pro Thr Trp Lys Thr Arg  
 85 90 95

Leu Arg Cys Ala Leu Asn Lys Ser Asn Asp Phe Glu Glu Leu Val Glu  
 100 105 110

Arg Ser Gln Leu Asp Ile Ser Asp Pro Tyr Lys Val Tyr Arg Ile Val  
 115 120 125

Pro Glu Gly Ala Lys Lys Gly Ala Lys Gln Leu Thr Leu Asp Asp Thr  
 130 135 140

Gln Met Ala Met Gly His Pro Tyr Pro Met Thr Ala Pro Tyr Gly Ser  
 145 150 155 160

Leu Pro Ala Gln Val His Asn Tyr Met Met Pro Pro His Asp Arg Ser  
 165 170 175

Trp Arg Asp Tyr Ala Pro Asp Gln Ser His Pro Glu Ile Pro Tyr Gln  
 180 185 190

Cys Pro Val Thr Phe Gly Pro Arg Gly His His Trp Gln Gly Pro Ser  
 Page 574

195

200

205

Cys Glu Asn Gly Cys Gln Val Thr Gly Thr Phe Tyr Ala Cys Ala Pro  
 210 215 220

Pro Glu Ser Gln Ala Pro Gly Ile Pro Ile Glu Pro Ser Ile Arg Ser  
 225 230 235 240

Ala Glu Ala Leu Ala Leu Ser Asp Cys Arg Leu His Ile Cys Leu Tyr  
 245 250 255

Tyr Arg Asp Ile Leu Val Lys Glu Leu Thr Thr Thr Ser Pro Glu Gly  
 260 265 270

Cys Arg Ile Ser His Gly His Thr Tyr Asp Val Ser Asn Leu Asp Gln  
 275 280 285

Val Leu Phe Pro Tyr Pro Asp Asp Asn Gly Gln Arg Lys Asn Ile Glu  
 290 295 300

Lys Leu Leu Ser His Leu Glu Arg Gly Leu Val Leu Trp Met Ala Pro  
 305 310 315 320

Asp Gly Leu Tyr Ala Lys Arg Leu Cys Gln Ser Arg Ile Tyr Trp Asp  
 325 330 335

Gly Pro Leu Ala Leu Cys Ser Asp Arg Pro Asn Lys Leu Glu Arg Asp  
 340 345 350

Gln Thr Cys Lys Leu Phe Asp Thr Gln Gln Phe Leu Ser Glu Leu Gln  
 355 360 365

Val Phe Ala His His Gly Arg Pro Ala Pro Arg Phe Gln Val Thr Leu  
 370 375 380

Cys Phe Gly Glu Glu Phe Pro Asp Pro Gln Arg Gln Arg Lys Leu Ile  
 385 390 395 400

Thr Ala His Val Glu Pro Leu Leu Ala Arg Gln Leu Tyr Tyr Phe Ala  
 405 410 415

Gln Gln Asn Thr Gly His Phe Leu Arg Gly Tyr Glu Leu Pro Glu His  
 420 425 430

Val Thr Thr Pro Asp Tyr His Arg Ser Leu Arg His Ser Ser Ile Gln  
 435 440 445

Glu

&lt;210&gt; 581

&lt;211&gt; 451

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 581

Met Asn Leu Glu Gly Gly Gly Arg Gly Gly Glu Phe Gly Met Ser Ala  
 1 5 10 15

Val Ser Cys Gly Asn Gly Lys Leu Arg Gln Trp Leu Ile Asp Gln Ile  
 20 25 30

Asp Ser Gly Lys Tyr Pro Gly Leu Val Trp Glu Asn Glu Glu Lys Ser  
 35 40 45

Ile Phe Arg Ile Pro Trp Lys His Ala Gly Lys Gln Asp Tyr Asn Arg  
 50 55 60

Glu Glu Asp Ala Ala Leu Phe Lys Ala Trp Ala Leu Phe Lys Gly Lys  
 65 70 75 80

Phe Arg Glu Gly Ile Asp Lys Pro Asp Pro Pro Thr Trp Lys Thr Arg  
 85 90 95

Leu Arg Cys Ala Leu Asn Lys Ser Asn Asp Phe Glu Glu Leu Val Glu  
 100 105 110

Arg Ser Gln Leu Asp Ile Ser Asp Pro Tyr Lys Val Tyr Arg Ile Val  
 115 120 125

Pro Glu Gly Ala Lys Lys Gly Ala Lys Gln Leu Thr Leu Glu Asp Pro  
 130 135 140

Gln Met Ser Met Ser His Pro Tyr Thr Met Thr Thr Pro Tyr Pro Ser  
 145 150 155 160

Leu Pro Ala Gln Gln Val His Asn Tyr Met Met Pro Pro Leu Asp Arg  
 165 170 175

Ser Trp Arg Asp Tyr Val Pro Asp Gln Pro His Pro Glu Ile Pro Tyr  
 180 185 190

Gln Cys Pro Met Thr Phe Gly Pro Arg Gly His His Trp Gln Gly Pro  
 195 200 205  
 Ala Cys Glu Asn Gly Cys Gln Val Thr Gly Thr Phe Tyr Ala Cys Ala  
 210 215 220  
 Pro Pro Glu Ser Gln Ala Pro Gly Val Pro Thr Glu Pro Ser Ile Arg  
 225 230 235 240  
 Ser Ala Glu Ala Leu Ala Phe Ser Asp Cys Arg Leu His Ile Cys Leu  
 245 250 255  
 Tyr Tyr Arg Glu Ile Leu Val Lys Glu Leu Thr Thr Ser Ser Pro Glu  
 260 265 270  
 Gly Cys Arg Ile Ser His Gly His Thr Tyr Asp Ala Ser Asn Leu Asp  
 275 280 285  
 Gln Val Leu Phe Pro Tyr Pro Glu Asp Asn Gly Gln Arg Lys Asn Ile  
 290 295 300  
 Glu Lys Leu Leu Ser His Leu Glu Arg Gly Val Val Leu Trp Met Ala  
 305 310 315 320  
 Pro Asp Gly Leu Tyr Ala Lys Arg Leu Cys Gln Ser Arg Ile Tyr Trp  
 325 330 335  
 Asp Gly Pro Leu Ala Leu Cys Asn Asp Arg Pro Asn Lys Leu Glu Arg  
 340 345 350  
 Asp Gln Thr Cys Lys Leu Phe Asp Thr Gln Gln Phe Leu Ser Glu Leu  
 355 360 365  
 Gln Ala Phe Ala His His Gly Arg Ser Leu Pro Arg Phe Gln Val Thr  
 370 375 380  
 Leu Cys Phe Gly Glu Glu Phe Pro Asp Pro Gln Arg Gln Arg Lys Leu  
 385 390 395 400  
 Ile Thr Ala His Val Glu Pro Leu Leu Ala Arg Gln Leu Tyr Tyr Phe  
 405 410 415  
 Ala Gln Gln Asn Ser Gly His Phe Leu Arg Gly Tyr Asp Leu Pro Glu  
 420 425 430  
 His Ile Ser Asn Pro Glu Asp Tyr His Arg Ser Ile Arg His Ser Ser  
 435 440 445

Ile Gln Glu  
450

<210> 582

<211> 1

<212> DNA

<213> Missing

<400> 582

a

1

<210> 583

<211> 166

<212> PRT

<213> Homo sapiens

<400> 583

Met Thr Val Pro Leu Asn Gly Val Ile Arg Gln His Lys Thr Asp Lys  
1 5 10 15

Pro Asp Gln Asp Phe Ser Glu Gly Ala Gln Phe Phe Leu Lys Ser Lys  
20 25 30

Lys Gln Lys Ser Leu Ser Val Gly Val Cys Leu Arg His Asn Gly Leu  
35 40 45

Val Leu Ile Lys Gly Pro Phe Ile Leu Phe Ala Glu Lys Val Lys Ser  
50 55 60

Thr Ala Gly His Ala Ser Gly Val Val Leu Trp Gln Pro Gln Ser Gln  
65 70 75 80

Cys Gly Pro Tyr Lys Val Phe Leu Lys Asp Leu Ser Ser Thr Pro Met  
85 90 95

Ala Ser Asn Asn Thr Ala Ser Ile Ala Gln Ala Arg Lys Leu Val Glu  
100 105 110

Gln Leu Lys Met Glu Ala Asn Ile Asp Arg Ile Lys Val Ser Lys Ala  
115 120 125

Ala Ala Asp Leu Met Ala Tyr Cys Glu Ala His Ala Lys Glu Asp Pro  
 130 135 140

Leu Leu Thr Pro Val Pro Ala Ser Glu Asn Pro Phe Arg Glu Lys Lys  
 145 150 155 160

Phe Phe Cys Ala Ile Leu  
 165

<210> 584

<211> 1

<212> DNA

<213> Place holder

<400> 584  
 a

1

<210> 585

<211> 1

<212> DNA

<213> Place holder

<400> 585  
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1

<210> 586

<211> 1

<212> DNA

<213> Place holder

<400> 586  
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1

<210> 587

<211> 1

<212> DNA

<213> Place holder

<400>	587	
a		1
<210>	588	
<211>	1	
<212>	DNA	
<213>	Place holder	
<400>	588	
a		1
<210>	589	
<211>	1	
<212>	DNA	
<213>	Place holder	
<400>	589	
a		1
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<211>	1	
<212>	DNA	
<213>	Place holder	
<400>	590	
a		1
<210>	591	
<211>	1	
<212>	DNA	
<213>	Place holder	
<400>	591	
a		1
<210>	592	



&lt;211&gt; 445

&lt;212&gt; PRT

&lt;213&gt; Rat

&lt;400&gt; 592

Met Gly Gly Val Gly Glu Pro Gly Pro Arg Glu Gly Pro Ala Gln Pro  
 1 5 10 15

Gly Ala Pro Leu Pro Thr Phe Cys Trp Glu Gln Ile Arg Ala His Asp  
 20 25 30

Gln Pro Gly Asp Lys Trp Leu Val Ile Glu Arg Arg Val Tyr Asp Ile  
 35 40 45

Ser Arg Trp Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His  
 50 55 60

His Gly Ala Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp  
 65 70 75 80

Leu Asn Phe Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu  
 85 90 95

Ala Pro Glu Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val  
 100 105 110

Glu Asp Phe Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe  
 115 120 125

Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala  
 130 135 140

Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp  
 145 150 155 160

Val Pro Ser Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln  
 165 170 175

Ser Trp Cys Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys  
 180 185 190

Ser Trp Trp Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys  
 195 200 205

## 69014-PRO2.ST25.txt

Gly Phe Ser Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala  
 210 215 220

Lys Pro Asn Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val  
 225 230 235 240

Phe Leu Leu Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Lys Arg Arg  
 245 250 255

Tyr Leu Pro Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro  
 260 265 270

Pro Leu Leu Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met  
 275 280 285

Leu Val Cys Met Gln Trp Ala Asp Leu Leu Trp Ala Ala Ser Phe Tyr  
 290 295 300

Ala Arg Phe Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val  
 305 310 315 320

Leu Leu Phe Phe Val Ala Val Arg Val Leu Glu Ser His Trp Phe Val  
 325 330 335

Trp Ile Thr Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys  
 340 345 350

His Arg Asp Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu  
 355 360 365

Pro Ser Leu Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile  
 370 375 380

Glu His His Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val  
 385 390 395 400

Ala Pro Leu Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu  
 405 410 415

Val Lys Pro Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys  
 420 425 430

Lys Ser Gly Asp Ile Trp Leu Asp Ala Tyr Leu His Gln  
 435 440 445

<210> 593

<211> 1

<212> DNA

<213> Place holder

<400> 593

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<210> 594

<211> 1

<212> DNA

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<211> 1

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a

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<210> 599

<211> 1

<212> DNA

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<211> 160

<212> PRT

<213> Human

<400> 600

Met Arg Thr Ala Ala Gly Ala Val Ser Pro Asp Ser Arg Pro Glu Thr  
1 5 10 15

Arg Arg Gln Thr Arg Lys Asn Glu Glu Ala Ala Trp Gly Pro Arg Val  
20 25 30

Cys Arg Ala Glu Arg Glu Asp Asn Arg Lys Cys Pro Pro Ser Ile Leu  
35 40 45

Lys Arg Ser Arg Pro Glu His His Arg Pro Glu Ala Lys Pro Gln Arg  
50 55 60

Thr Ser Arg Arg Val Trp Phe Arg Glu Pro Pro Ala Val Thr Val His  
65 70 75 80

Tyr Ile Ala Asp Lys Asn Ala Thr Ala Thr Val Arg Val Pro Gly Arg  
                   85                  90                  95

Pro Arg Pro His Gly Gly Ser Leu Leu Leu Gln Leu Cys Val Cys Val  
                   100                  105                  110

Leu Leu Val Leu Ala Leu Gly Leu Tyr Cys Gly Arg Ala Lys Pro Val  
                   115                  120                  125

Ala Thr Ala Leu Glu Asp Leu Arg Ala Arg Leu Leu Gly Leu Val Leu  
                   130                  135                  140

His Leu Arg His Val Ala Leu Thr Cys Trp Arg Gly Leu Leu Arg Leu  
                   145                  150                  155                  160

<210> 601

<211> 1

<212> DNA

<213> Place holder

<400> 601

a

1

<210> 602

<211> 1

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<210> 606

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<400> 606

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<210> 607

<211> 1

<212> DNA

<213> Place holder

<400> 607

a

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<210> 608

<211> 1

<212> DNA

<213> Place holder

<400> 608  
a

1

<210> 609

<211> 1

<212> DNA

<213> Place holder

<400> 609  
a

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<210> 610

<211> 824

<212> PRT

<213> Human

<400> 610

Gly Asp Arg Val Lys Glu Lys Arg Asn Lys Thr Thr Glu Glu Asn Gly  
1 5 10 15

Glu Lys Gly Thr Glu Ile Phe Arg Ala Ser Ala Val Ile Pro Ser Lys  
20 25 30

Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu Glu Leu Leu Gln Arg Arg  
35 40 45

Leu Gly Lys Tyr Glu His Ser Ile Ser Val Arg Pro Gln Gln Leu Ser  
50 55 60

Gly Arg Leu Ser Val Asp Val Asn Ile Leu Glu Ser Ala Gly Ile Ala  
65 70 75 80

Ser Leu Glu Val Leu Pro Leu His Asn Ser Arg Gln Arg Gly Ser Gly  
85 90 95

Arg Gly Glu Asp Asp Ser Gly Pro Pro Pro Ser Thr Val Ile Asn Gln  
100 105 110

Asn Glu Thr Phe Ala Asn Ile Ile Phe Lys Pro Thr Val Val Gln Gln  
115 120 125

Ala Arg Ile Ala Gln Asn Gly Ile Leu Gly Asp Phe Ile Ile Arg Tyr  
 130 135 140  
 Asp Val Asn Arg Glu Gln Ser Ile Gly Asp Ile Gln Val Leu Asn Gly  
 145 150 155 160  
 Tyr Phe Val His Tyr Phe Ala Pro Lys Asp Leu Pro Pro Leu Pro Lys  
 165 170 175  
 Asn Val Val Phe Val Leu Asp Ser Ser Ala Ser Met Val Gly Thr Lys  
 180 185 190  
 Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile Leu His Asp Leu Arg  
 195 200 205  
 Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser Asn Arg Ile Lys Val  
 210 215 220  
 Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp Ser Ile Arg Asp Gly  
 225 230 235 240  
 Lys Val Tyr Ile His His Met Ser Pro Thr Gly Gly Thr Asp Ile Asn  
 245 250 255  
 Gly Ala Leu Gln Arg Ala Ile Arg Leu Leu Asn Lys Tyr Val Ala His  
 260 265 270  
 Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu Thr Asp  
 275 280 285  
 Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu Asn Asn  
 290 295 300  
 Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile Gly Ile  
 305 310 315 320  
 Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys Leu Ser Leu Glu Asn  
 325 330 335  
 Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu Asp Ala Gly Ser Gln  
 340 345 350  
 Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro Leu Leu Ser Asp Ile  
 355 360 365  
 Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln Ala Thr Lys Thr Leu  
 Page 588



370

375

380

Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile Ile Ala Gly Lys Leu  
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 Val Asp Arg Lys Leu Asp His Leu His Val Glu Val Thr Ala Ser Asn  
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 Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val Pro Val Arg Pro Gln  
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 Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg Pro Gly Gly Asp Gly  
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 Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp Asp Glu Pro Glu Lys  
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 Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala Val Ser Tyr Arg Phe  
 485 490 495  
 Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly Pro Val Pro Arg Met  
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 Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr Gln Pro Gly Pro Leu  
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 Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile Ser Lys Thr Ser Val  
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 Asp Gly Asp Pro His Phe Val Val Asp Phe Pro Leu Ser Arg Leu Thr  
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 Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp Ile Leu Arg Leu Val  
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 Ser Asp His Arg Asp Ser Gly Val Thr Val Asn Gly Glu Leu Ile Gly  
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 Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln Arg Thr Tyr Leu Arg  
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Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg Ser Tyr Leu Glu Ile  
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Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp Arg Leu Val Leu Pro  
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Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly Leu Glu Val Ser Val  
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Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln Gly Ser Ile Ala Phe  
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Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala Pro Phe Gln Arg His  
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His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly Leu Ser Ser Asn Cys  
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His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp Ala Arg Leu Thr Glu  
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Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His Pro Leu Leu Leu Gln  
740 745 750

Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val Lys Gly His Gln Val  
755 760 765

Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn Gly Glu Glu Gln Ile  
770 775 780

Asp Cys Trp Phe Ala Arg Asn Asn Ala Ala Lys Leu Ile Asp Gly Glu  
785 790 795 800

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Ala Asp Thr Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu  
 35 40 45

Pro Ala Asn Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu  
 Page 592

50

55

60

Ser Ser Asn Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val  
 65 70 75 80  
 Pro Gln Leu Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu  
 85 90 95  
 Pro Pro Gly Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu  
 100 105 110  
 Lys Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu  
 115 120 125  
 Lys Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg Leu Arg Lys Leu  
 130 135 140  
 Pro Pro Gly Leu Leu Ala Asn Phe Thr Leu Leu Arg Thr Leu Asp Leu  
 145 150 155 160  
 Gly Glu Asn Gln Leu Glu Thr Leu Pro Pro Asp Leu Leu Arg Gly Pro  
 165 170 175  
 Leu Gln Leu Glu Arg Leu His Leu Glu Gly Asn Lys Leu Gln Val Leu  
 180 185 190  
 Gly Lys Asp Leu Leu Leu Pro Gln Pro Asp Leu Arg Tyr Leu Phe Leu  
 195 200 205  
 Asn Gly Asn Lys Leu Ala Arg Val Ala Ala Gly Ala Phe Gln Gly Leu  
 210 215 220  
 Arg Gln Leu Asp Met Leu Asp Leu Ser Asn Asn Ser Leu Ala Ser Val  
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 Pro Glu Gly Leu Trp Ala Ser Leu Gly Gln Pro Asn Trp Asp Met Arg  
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 Asp Gly Phe Asp Ile Ser Gly Asn Pro Trp Ile Cys Asp Gln Asn Leu  
 260 265 270  
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 35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
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Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
 65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
 85 90 95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
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Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
 115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
 130 135 140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
 145 150 155 160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
 165 170 175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
 180 185 190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln  
 195 200 205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser  
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Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys  
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 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala  
 245 250 255  
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile  
 260 265 270  
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly  
 275 280 285  
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro  
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 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val  
 305 310 315 320  
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala  
 325 330 335  
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr  
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 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala  
 355 360 365  
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr  
 370 375 380  
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr  
 385 390 395 400  
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro  
 405 410 415  
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg  
 420 425 430  
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr  
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 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg  
 450 455 460  
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val  
 Page 598

465                      470                      475                      480  
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 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu  
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 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn  
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 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu  
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Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu  
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Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile  
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Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala  
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Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu  
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Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe  
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Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His  
 835 840 845

Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe  
 850 855 860

Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro  
 865 870 875 880

Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met  
 885 890 895

Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg  
 900 905 910

Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln  
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His His Gly Tyr Pro Tyr  
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Trp Gly Asp Cys Gly Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala  
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Leu Glu Gly Arg Thr Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys  
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Cys Glu Glu Ser Phe Val Lys Ile Pro Gly Glu Lys Asp Ser Val Ile  
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Cys Leu Lys Gly Ser Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg  
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Ser Cys Glu Val Pro Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro  
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Tyr Ile Thr Gln Asn Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu  
 115 120 125

Cys Arg Pro Gly Tyr Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr  
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Cys Leu Gln Asn Leu Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys  
 145 150 155 160

Lys Ser Cys Pro Asn Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val  
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Pro Gly Gly Ile Leu Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr  
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Gly Tyr Lys Leu Phe Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly  
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Ser Ser Val Gln Trp Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr  
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Cys Pro Ala Pro Pro Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg  
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Asp His Tyr Gly Tyr Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly  
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Phe Thr Met Ile Gly Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp  
 260 265 270

Glu Gly Glu Trp Ser Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu  
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Thr Ser Lys Val Pro Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val  
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 305 310 315 320

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Lys Lys Ile Lys Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro  
35 40 45

Ile Ser Lys Lys Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro  
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Ser Ser Cys Pro Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr  
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Thr Thr Ser Gln Ser Ser Phe Ser Tyr Pro Ala His Asn Gln Glu Ala  
 35 40 45

Cys Met Tyr Ser Ser Asn Ser Asn Ser Val Ser Gln Pro Leu Leu Ser  
 50 55 60

Gly Arg Asn Tyr Met Thr Pro Gln Thr Gln Ile Ser Val Ser Asn Met  
 65 70 75 80

Pro Ser Arg Thr Ile Val Thr Ser Gln Ser Ser Met Glu Gly Val Val  
 85 90 95

Cys Thr Asn Val Lys Gly Pro Gln Gln Pro Asn His Asn Leu Gln Thr  
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Val Ser Ser Gly Val Met Gln Asn Val Trp Phe Gly Ser Ser Val Lys  
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Asn Phe Met Pro Ser His Thr Glu Ala Thr Ile Ser His Asn Pro Asp  
 130 135 140

Gly Arg Thr Asn Met Pro Tyr Met Gln Thr Pro Gln Ser Gln Leu Val  
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Thr Ser Asp Thr Tyr Ser Met Gln Leu Gln Met Val Pro Phe Asn Ser  
 165 170 175

Gly Lys Val Pro Val Ala Tyr Gln Gly Asn Gln Gly Leu Asn His Phe  
 180 185 190

Ile Pro Asp Gln Leu Ala Asp Trp Thr Gln Tyr Thr Ser Ser Glu Leu  
 195 200 205

Thr Tyr Pro Glu Tyr Arg Pro Pro Leu Lys Gln Tyr Ser Arg Ile Leu  
 Page 620



210

215

220

Pro Ala Thr Thr Ser Leu Gln Val Lys Asn Asn Pro Leu Pro Thr Tyr  
 225 230 235 240  
 Thr Gln Ala Leu Gln Ser Lys His Ser Ala Pro Leu Ser Ser His Pro  
 245 250 255  
 Tyr Ala Ala Glu Thr Ser Lys Arg Leu Ser Ala Leu Pro Tyr Ser Cys  
 260 265 270  
 Arg Tyr Gly Ser Gln His Val Gln Asn Thr Gln Pro Val Ser Lys His  
 275 280 285  
 Leu Pro Met Glu Val Pro Gln Ser Pro Glu Val His Ser Ser Glu Lys  
 290 295 300  
 Lys Gln Asp Ser Tyr Arg Gly Phe Lys Gln Gln Trp Gln Asn Pro Asn  
 305 310 315 320  
 Glu Ser Phe Thr Ile Gly Lys Phe Ser Asp Leu Lys Ile Asn Ala Lys  
 325 330 335  
 Gln Ser Tyr Ser Asp Thr Val Arg Ser Ser Gly Asp Gly Val Gln Ala  
 340 345 350  
 Leu Val Gln Asn Asn Gln Glu Lys Arg Lys Tyr Pro Tyr Ser Pro Ser  
 355 360 365  
 Thr Asn Gln Val Ile Asp Thr Asn Ala Thr Lys Glu Lys Leu Ala Arg  
 370 375 380  
 Asp Ile Lys Ser Leu Val Glu Ile Lys Lys Lys Phe Thr Glu Leu Ala  
 385 390 395 400  
 Arg Lys Ile Lys Ile Asn Lys Ser Leu Leu Met Ala Ala Gly Cys Ser  
 405 410 415  
 Lys Thr Ala Asn Thr Ser Tyr Thr Glu Pro Ile Gln His Ser Glu Phe  
 420 425 430  
 Ser Ala Lys Glu Met Ser Ala Lys Asn Gly Asn Asp Cys Ser Met Glu  
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Thr Glu Glu Asn Val Pro Lys Pro Leu Glu Glu Lys Gln Cys Asn Thr  
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 485 490 495  
 Val His Val Lys Ser Phe Cys Ser Gly Val Gly Asn Ser Gln Lys Leu  
 500 505 510  
 Leu Ser Ser Ser Gln Thr Ile Leu Ser Val Leu Thr Pro Ser Gly Glu  
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 Ser Ser Gly Val Ala Val Gly Lys Gly Thr Glu Leu Gln Ile Ala Val  
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 Val Ser Pro Leu Val Leu Ala Asp Thr Asn Pro Leu Pro Gly Lys Glu  
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 Gly Ser Ile Cys Ser Leu Gln His Gln Gln Ala Glu Thr Ala Ala Leu  
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 Pro Phe His Ile Thr Gly Val Val Ala Asp Ser Asn Leu Ser Val Glu  
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 Met Ser Leu Pro Ala Gln Lys Glu Lys Gln His Lys Pro Thr Gln Gly  
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 Asp Pro Asp Ile Ala Asp His Gly Leu Gly Lys Leu Ser Pro Leu Gly  
 625 630 635 640  
 Thr Glu Ala Val Pro Asn Ser Val Asp Ser Thr Thr Val Ser Gly Pro  
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 Met Leu Gln Ile Glu Ser Ile Cys Ser Leu Ala Glu Gly Asp Val Ser  
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 Tyr Asn Ser Gln Ile Ala Glu Ile Phe Asn Ser Val Gln Asn Glu Pro  
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 Asp Gly Thr Thr Glu Asn Lys Asp Phe Ser Leu Gln Lys Asp Lys Lys  
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 Val Leu Gln Pro Glu Glu Pro Ala Ser Cys Glu Tyr Val Glu Ala Asn  
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 Ser Thr Ala Glu Asp Val Cys Ser Pro Ala Gly Phe Gln Gln Asp Pro  
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 His Pro Gln Glu Thr Asp Ser Leu Ser Asn Lys Ser Ala His Cys Leu  
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 Pro Ala Val Asn Glu Ile Asn Asp Glu Ser Glu Pro Val Ser Tyr Leu  
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 His Asp Gln Leu Ser Glu Leu Leu Lys Glu Phe Pro Tyr Gly Ile Glu  
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 Thr Val Ser Arg His Glu Val Ser Val Asp Gln Lys Lys Thr His Lys  
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 Glu Pro Glu Gly Lys Asn Val Ala Glu Val Lys Ser Pro Cys Asp Ser  
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 Gln Val Pro Arg Glu Glu Ser His Asp Phe Gly Met Leu Asp Pro Glu  
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 Lys Asp Lys Ile His Cys Cys Ala Leu Gly Trp Leu Ser Met Val Tyr  
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 Glu Gly Val Pro Lys Cys His Cys Ser Ser Asn Glu Glu Lys Gly Lys  
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 Asp Gln Cys Leu Asp Met Asn Ser Cys Lys Gln Gly Glu Gln Pro Cys  
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Asn Asn Gly Ile Thr Ile Phe Glu Ile Asn Pro Val Ser Asn Asn Pro  
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Lys Thr Pro Leu Thr Gln Ala Ala Glu Lys Gly His Phe Ser Glu Met  
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His Gly Asp Lys Thr Lys Gly Ser Lys Thr Lys Asp Ser Arg Glu  
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Glu Gln Gln His Phe Ser Ala Lys Cys Tyr Lys Lys Asp Lys Asp  
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Asn Leu Lys Met Arg His Asp Ser Ser Leu Lys Met Glu Gln Lys  
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Leu Lys Asn Thr Ser Ser Glu Cys Asp Arg Leu Asn Pro Ser Lys  
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Asn Ser Asp Lys Asn Met Ser Phe Phe Lys Gln Ala Ser Gln Glu  
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Ser Leu Gln Arg Lys Pro Thr Ser Gln Asp Ser Asn Pro Val Lys  
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Ala Pro Val Glu Leu Pro Ser Asn Thr Asp Pro Cys Arg Arg Asn  
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Phe Lys Ala Gly Gly Ser Arg Leu Lys Tyr Phe Glu Lys Arg Lys  
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Thr Asp Asn Met Ile Ile Pro Asp Val Glu Ile Lys Lys Lys Lys  
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Tyr Glu Lys Gln Glu Gln Asn Lys Asn Ala Gly Glu Thr Leu Lys  
 1175 1180 1185

Leu Cys Ser Ala Leu Arg Glu Ser Asn Glu Arg Ala Ser Val Gln  
 1190 1195 1200

Glu Asn Ala Ile Pro Ser Pro Glu Ser Ser Asp Ser Lys Gly Ser  
 Page 624

1205

1210

1215

Ser Leu Lys Ser Thr Arg Val Ile Thr Val Gln Glu Tyr Leu Gln  
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Arg Arg Lys Asp Lys His Val Thr Gly Ser Asp Ala Ser Gly Asn  
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Ile Cys Val Glu Asn Val Leu Cys Asn Ser Glu His Met Lys Thr  
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Ser Lys Asp Ser Ala Glu Ile Ser Trp Glu Lys Ser Ala Asp Gly  
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Gln Ser Ile Arg Ala Glu Thr Ser Lys Glu Pro Gly His Asn Ser  
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Thr Ile His Gly Lys Ala Phe Lys Ile His His Ser Glu Val Ser  
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Arg Thr His Ser Val Ser Ser Asn Ser Lys Gly Lys Gln Pro Asp  
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Lys Ile Tyr Lys Ala Arg Thr Ser Asn Glu His Ser Gln Val Pro  
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Leu Gln Val Lys Glu Gln Arg Lys Gln Tyr Leu Asn Arg Val Ala  
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Phe Lys Cys Thr Glu Arg Glu Ser Ile Cys Leu Thr Lys Leu Asp  
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Ser Ala Ser Lys Lys Leu Ser Thr Glu Lys Lys Glu Ser Glu Ala  
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His Thr Leu Lys Thr Lys Asn Ile Asp Lys Pro Ser Met Leu Glu  
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Phe Lys Leu Cys Pro Asp Val Leu Leu Lys Asn Thr Ser Ser Val  
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Val Glu Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asn Leu Leu Phe Leu  
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Val Thr Leu Pro Phe Trp Gly Ile Ser Val Ala Trp His Trp Val Phe  
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Gly Ser Phe Leu Cys Lys Met Val Ser Thr Leu Tyr Thr Ile Asn Phe  
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Tyr Ser Gly Ile Phe Phe Ile Ser Cys Met Ser Leu Asp Lys Tyr Leu  
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Ile Pro Asp Met Val Phe Val Gln Thr His Glu Asn Pro Lys Gly Val  
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Arg Pro Ala Gly Gln Gly Arg Ala Leu Lys Ile Ala Ala Ala Leu Val  
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Cys Cys Phe Ser Pro Ile Leu Tyr Ala Phe Ser Ser His Arg Phe Arg  
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Gln Tyr Leu Lys Ala Phe Leu Ala Ala Val Leu Gly Trp His Leu Ala  
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Gly Gln Pro Val Phe Glu Ser Lys Leu Arg Ala Gln Ser Val Thr Arg  
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Thr Cys Gln Val Lys Thr Gly Thr Trp Asn Gly Arg Lys Val Leu Val  
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Val Asp Thr Pro Ser Ile Phe Glu Ser Gln Ala Asp Thr Gln Glu Leu  
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Tyr Lys Asn Ile Gly Asp Cys Tyr Leu Leu Ser Ala Pro Gly Pro His  
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Val Leu Leu Leu Val Ile Gln Leu Gly Arg Phe Thr Ala Gln Asp Thr  
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Val Ala Ile Arg Lys Val Lys Glu Val Phe Gly Thr Gly Ala Met Arg  
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His Val Val Ile Leu Phe Thr His Lys Glu Asp Leu Gly Gly Gln Ala  
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Leu Asp Asp Tyr Val Ala Asn Thr Asp Asn Cys Ser Leu Lys Asp Leu  
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Val Arg Glu Cys Glu Arg Arg Tyr Cys Ala Phe Asn Asn Trp Gly Ser  
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Val Glu Glu Gln Arg Gln Gln Gln Ala Glu Leu Leu Ala Val Ile Glu  
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Arg Leu Gly Arg Glu Arg Glu Gly Ser Phe His Ser Asn Asp Leu Phe  
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69014-PRO2.ST25.txt

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Asp Tyr Arg Gln Tyr Gln Ala Lys Val Glu Trp Gln Val Glu Lys His  
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Lys Gln Glu Leu Arg Glu Asn Glu Ser Asn Trp Ala Tyr Lys Ala Leu  
260 265 270

Leu Arg Val Lys His Leu Met Leu Leu His Tyr Glu Ile Phe Val Phe  
275 280 285

Leu Leu Leu Cys Ser Ile Leu Phe Phe Ile Ile Phe Leu Phe Ile Phe  
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His Tyr Ile  
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